

FEB 20 1986

**Area
Wage
Survey**

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M68-B-5
**Los Angeles-Long Beach,
California, Metropolitan Area
October 1985**

L 2.121/5-5:985


U.S. Department of Labor
Bureau of Labor Statistics

Bulletin 3030-62

(Serial)



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Preface

This bulletin provides results of an October 1985 survey of occupational earnings in the Los Angeles-Long Beach, CA, Standard Metropolitan Statistical Area. The survey was made as part of the Bureau of Labor Statistics' annual area wage survey program. It was conducted by the Bureau's regional office in San Francisco, CA, under the general direction of Caryl L. O'Keefe, Assistant Regional Commissioner for Operations. The survey could not have been accomplished without the cooperation of the many firms whose wage and salary data provided the basis for the statistical information in this bulletin. The Bureau wishes to express sincere appreciation for the cooperation received.

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Note:

Reports on occupational earnings and employee benefits in the Los Angeles-Long Beach area are available for the following industries: Mens' and boys' shirts (except workshirts) and nightwear (May 1984), hospitals (August 1985), nursing and personal care facilities (September 1985), and banking (October 1985). These reports are available from the Bureau's Regional Offices. Regional Offices also have available five summary releases: *Occupational Earnings and Wage Trends in Metropolitan Areas* (3 parts); *Occupational Earnings in All Metropolitan Areas* (combined); and *Wage Differences Among Metropolitan Areas*.

A summary bulletin, *Area Wage Surveys, Selected Metropolitan Areas*, provides wage data for 70 areas in the Area Wage Survey program. This annual bulletin may be purchased from the Superintendent of Documents or from the BLS Publications Sales Center in Chicago.

Area Wage Survey

Los Angeles-Long Beach, California, Metropolitan Area October 1985



U.S. Department of Labor
William E. Brock, Secretary

Bureau of Labor Statistics
Janet L. Norwood, Commissioner
February 1986

Bulletin 3030-62

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Introduction

This area is 1 of 70 in which the U.S. Department of Labor's Bureau of Labor Statistics conducts surveys of occupational earnings and related benefits. (See list of areas on inside back cover.) In each area, earnings data for selected occupations (A-series tables) are collected annually. Information on establishment practices and employee benefits (B-series tables) is obtained every third year. This report has no B-series tables.

A major consideration in the area wage survey program is the need to describe the level and movement of wages in a variety of labor markets, through the analysis of (1) the level and distribution of wages by occupation, and (2) the movement of wages by occupational category and skill level. The program develops information that may be used for many purposes, including wage and salary administration, collective bargaining, and assistance in determining plant location. Survey results also are used by the U.S. Department of Labor to make wage determinations under the Service Contract Act of 1965.

A-series tables

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. Where possible, occupations with related duties (e.g. accounting clerks and payroll clerks) are clustered to facilitate comparison. The occupations are defined in appendix B. For the 31 largest survey areas, tables A-12 through A-17 provide similar data for establishments

employing 500 workers or more.

Table A-7 provides indexes and percent changes in average hourly earnings for office clerical workers, electronic data processing workers, industrial nurses, skilled maintenance trades workers, and unskilled plant workers. Where possible, data are presented for all industries and for manufacturing and nonmanufacturing separately. Data are not presented for skilled maintenance workers in nonmanufacturing because the number of workers employed in this occupational group in nonmanufacturing is too small to warrant separate presentation. This table provides a measure of wage trends after elimination of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Tables A-8 through A-11 provide measures of pay relationships in establishments. These measures may differ considerably from the pay relationships of overall area averages published in tables A-1 through A-6. See appendix A for details.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program and provides information on the scope of the survey.

Appendix B provides job descriptions used by Bureau field representatives to classify workers by occupation.

Table A-1. Weekly earnings of office workers in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings (in dollars) ²			Number of workers receiving straight-time weekly earnings (in dollars) of —																							
			Mean ³	Median ³	Middle range ³	140 and under 160	160-180	180-200	200-220	220-240	240-260	260-280	280-300	300-320	320-360	360-400	400-440	440-480	480-520	520-560	560-600	600-640	640-680	680-720	720-760	760 and over			
Secretaries	23,159	36.5	421.50	411.50	356.00-480.00	-	-	-	44	45	108	480	675	1086	3687	3946	4157	3081	2392	2015	721	467	161	37	10	37			
Manufacturing	12,453	36.5	419.50	413.00	363.50-470.00	-	-	-	44	1	61	194	234	407	2014	2229	2646	1951	1219	926	269	199	34	25	-	-			
Nonmanufacturing	10,706	36.0	423.50	406.00	346.00-496.00	-	-	-	-	44	47	296	441	679	1673	1717	1511	1130	1173	1069	452	268	127	10	37				
Transportation and utilities	1,397	36.0	449.00	436.00	374.50-511.50	-	-	-	-	-	8	4	2	45	173	233	267	101	292	119	93	35	12	2	4	7			
Secretaries I	2,484	36.5	366.00	348.50	301.00-400.00	-	-	-	41	36	43	201	223	263	570	419	162	110	163	167	18	6	-	-	-	-			
Manufacturing	360	40.0	342.00	346.50	280.00-382.50	-	-	-	41	-	20	41	1	11	116	66	56	34	1	1	-	-	-	-	-	-			
Nonmanufacturing	2,074	36.5	366.00	360.00	302.50-400.00	-	-	-	-	36	23	180	222	252	454	351	126	78	162	186	18	6	-	-	-	-			
Transportation and utilities	103	40.0	364.50	366.00	311.00-420.00	-	-	-	-	-	8	3	2	20	12	9	49	-	-	-	-	-	-	-	-	-			
Secretaries II	5,885	36.0	395.00	379.00	335.00-425.00	-	-	-	1	5	51	184	211	364	1488	1243	1158	674	218	240	18	22	-	-	-	-			
Manufacturing	3,854	36.0	378.50	360.00	345.00-412.50	-	-	-	1	1	41	82	112	159	626	890	804	440	98	-	-	-	-	-	-	-			
Nonmanufacturing	2,311	36.0	394.00	375.00	364.50-446.00	-	-	-	-	4	10	82	99	236	942	353	354	234	120	240	18	22	-	-	-	-			
Transportation and utilities	306	36.5	391.00	362.00	336.50-420.00	-	-	-	-	-	-	-	-	20	84	86	46	5	67	-	-	-	-	-	-	-			
Secretaries III	6,805	36.5	435.80	419.50	369.50-475.00	-	-	-	2	-	10	86	215	394	1062	1680	1832	1401	1118	590	248	48	8	-	-	-			
Manufacturing	5,041	36.5	414.00	415.00	374.00-465.00	-	-	-	2	-	-	70	100	173	603	980	1376	961	936	196	19	3	-	-	-	-			
Nonmanufacturing	3,584	36.5	436.50	409.00	367.50-511.00	-	-	-	-	10	26	112	121	479	690	498	450	563	354	229	46	8	-	-	-	-			
Transportation and utilities	680	36.0	447.50	428.00	389.50-511.50	-	-	-	-	-	-	1	-	5	78	134	137	83	188	84	14	3	-	-	-	-			
Secretaries IV	3,691	36.5	477.00	469.00	415.50-534.00	-	-	-	-	-	-	-	-	4	308	396	482	486	589	575	240	130	18	4	4	-			
Manufacturing	1,741	40.0	469.50	466.00	445.50-530.50	-	-	-	-	-	-	-	-	-	170	127	111	337	434	411	107	41	3	-	-	-			
Nonmanufacturing	1,310	36.5	471.50	464.00	404.00-542.00	-	-	-	-	-	-	-	-	4	38	308	381	121	169	164	130	79	15	4	4	-			
Transportation and utilities	179	40.0	539.00	503.00	479.50-577.00	-	-	-	-	-	-	-	-	-	1	5	11	26	16	31	71	16	1	-	-	-			
Secretaries V	1,466	36.5	536.50	542.00	498.50-595.00	-	-	-	-	-	-	-	-	-	-	38	184	176	120	415	191	240	63	31	8	11			
Manufacturing	960	36.5	536.50	560.00	495.00-595.00	-	-	-	-	-	-	-	-	-	-	20	139	51	89	318	143	186	31	25	-	-			
Nonmanufacturing	546	40.0	539.00	525.00	495.50-600.00	-	-	-	-	-	-	-	-	-	-	18	46	125	51	97	46	86	62	6	8	11			
Transportation and utilities	107	36.5	562.50	561.00	447.00-624.00	-	-	-	-	-	-	-	-	-	-	-	22	17	10	4	8	22	11	2	4	7			
Stenographers	434	40.0	373.00	364.00	303.50-461.50	-	-	-	-	2	31	20	46	39	86	53	32	64	29	26	-	-	-	-	-	-			
Nonmanufacturing	183	36.5	376.00	360.00	280.50-461.50	-	-	-	-	-	15	-	26	5	29	2	16	81	-	-	-	-	-	-	-	-			
Transportation and utilities	183	36.5	376.00	360.00	280.50-461.50	-	-	-	-	-	15	-	26	5	29	2	16	81	-	-	-	-	-	-	-	-			
Stenographers I	174	36.5	364.00	329.00	283.50-461.50	-	-	-	-	2	26	10	31	12	38	7	4	26	27	-	-	-	-	-	-	-			
Nonmanufacturing	88	36.5	357.00	322.00	283.50-426.00	-	-	-	-	-	15	-	26	5	24	-	4	22	-	-	-	-	-	-	-	-			
Transportation and utilities	88	36.5	357.00	322.00	283.50-426.00	-	-	-	-	-	15	-	26	5	24	-	4	22	-	-	-	-	-	-	-	-			
Typists	1,317	36.5	396.50	391.50	364.00-396.50	-	-	1	25	106	169	292	153	94	131	84	34	18	167	41	-	-	-	-	-	-			
Manufacturing	776	36.5	364.50	318.00	277.00-461.00	-	-	-	-	1	44	179	127	40	121	54	11	15	143	41	-	-	-	-	-	-			
Nonmanufacturing	641	36.5	398.50	399.00	342.50-397.50	-	-	1	25	107	115	113	26	54	10	40	27	3	24	-	-	-	-	-	-	-			
Typists I	677	36.5	396.50	390.00	359.50-469.00	-	-	1	23	80	96	199	72	16	41	9	26	15	164	-	-	-	-	-	-	-			
Manufacturing	369	40.0	399.50	391.00	280.00-399.00	-	-	-	-	1	3	77	64	18	32	6	5	15	140	-	-	-	-	-	-	-			
Nonmanufacturing	314	36.5	392.00	354.00	277.00-377.00	-	-	1	23	78	86	48	8	1	9	1	23	-	24	-	-	-	-	-	-	-			
Typists II	640	36.5	316.50	292.00	274.00-342.50	-	-	-	2	28	60	166	81	76	60	66	6	3	3	41	-	-	-	-	-	-			
Nonmanufacturing	227	36.5	298.50	281.50	262.00-307.50	-	-	-	2	28	19	64	18	63	1	36	-	3	-	-	-	-	-	-	-	-			
Word processors	2,386	36.0	361.50	342.50	286.50-391.50	-	-	-	31	-	96	255	269	279	376	636	271	148	28	68	-	-	-	-	-	-			
Manufacturing	767	40.0	360.00	360.00	308.50-430.00	-	-	-	-	-	2	8	22	33	221	222	180	122	6	1	-	-	-	-	-	-			
Nonmanufacturing	1,488	36.5	336.00	311.50	281.50-376.00	-	-	-	31	-	94	247	167	246	155	313	111	26	22	67	-	-	-	-	-	-			
Transportation and utilities	167	40.0	391.00	366.50	366.50-416.50	-	-	-	-	-	-	16	1	1	7	83	33	26	-	-	-	-	-	-	-	-			
Word processors I	968	36.0	329.00	306.00	261.50-369.50	-	-	-	-	-	64	161	191	179	125	188	48	2	11	41	-	-	-	-	-	-			
Manufacturing	177	36.5	346.00	349.00	316.00-370.00	-	-	-	-	-	1	7	19	21	52	63	13	1	-	-	-	-	-	-	-	-			
Nonmanufacturing	761	36.0	325.50	304.00	277.00-362.00	-	-	-	-	-	63	154	142	159	73	105	33	1	11	41	-	-	-	-	-	-			

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Los Angeles-Long Beach, CA, October 1985—Continued

Occupation and industry division	Number of workers	Average weekly hours* (stand-ard)	Weekly earnings (in dollars)*			Number of workers receiving straight-time weekly earnings (in dollars) of --																														
			Mean*	Median*	Middle range*	140 and under 180	180 - 180	180 - 200	200 - 220	220 - 240	240 - 260	260 - 280	280 - 300	300 - 320	320 - 360	360 - 400	400 - 440	440 - 480	480 - 520	520 - 560	560 - 600	600 - 640	640 - 680	680 - 720	720 - 760	760 and over										
Word processors II	1,337	38.0	367.50	374.50	322.00-410.00	-	-	-	31	-	32	94	48	89	251	367	225	148	17	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	620	40.0	380.00	381.50	344.00-434.00	-	-	-	-	-	1	1	3	12	189	159	147	121	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	717	38.5	348.00	356.50	291.00-380.00	-	-	-	31	-	31	93	45	87	82	308	78	25	11	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
File clerks	1,842	38.5	236.50	238.00	190.00-253.00	112	248	248	238	242	311	118	42	108	53	25	14	27	58	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	200	40.0	277.50	281.50	228.00-298.00	-	-	-	31	1	46	8	47	31	2	10	6	2	1	14	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	1,642	38.5	234.00	221.00	188.50-250.00	112	248	217	237	186	305	71	11	104	43	17	12	28	42	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	145	40.0	282.00	207.50	188.00-313.00	19	-	19	50	5	5	3	-	8	18	1	4	14	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
File clerks I	1,288	38.5	218.50	207.50	178.00-233.50	112	248	248	237	210	188	30	14	78	4	18	10	13	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	1,287	38.0	214.50	207.50	178.50-233.50	112	248	217	238	184	180	25	11	78	-	18	10	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
File clerks II	372	38.5	283.00	281.50	244.00-298.00	-	-	-	1	32	144	86	28	15	7	8	4	11	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	287	38.0	288.50	250.00	244.00-288.00	-	-	-	1	32	144	44	-	13	9	1	2	11	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Messengers	629	38.0	251.50	232.50	212.50-280.50	-	40	55	180	159	86	88	62	35	47	10	13	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	371	37.0	247.00	236.00	202.00-288.50	-	40	40	42	88	55	12	58	18	22	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	457	38.0	258.98	232.90	218.00-278.00	-	-	15	138	90	40	74	34	17	25	1	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Receptionists	744	38.5	308.50	300.00	282.50-383.00	3	-	-	11	23	78	185	88	29	57	79	53	22	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	323	38.0	316.00	288.50	285.50-348.50	-	-	-	-	30	4	81	83	18	50	18	35	5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	421	38.5	304.50	273.50	252.00-383.00	3	-	-	11	63	72	114	16	13	7	68	18	17	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Switchboard operators	1,230	38.5	278.00	247.00	225.00-315.50	-	19	9	78	432	143	83	60	101	127	65	81	38	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	404	38.5	320.00	315.50	288.50-378.50	-	-	-	-	24	34	33	29	88	79	42	81	4	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	829	38.5	250.00	230.00	225.00-284.00	-	19	9	78	408	108	80	31	13	46	23	-	32	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Switchboard operator-receptionists	2,786	38.5	278.50	274.50	240.00-310.00	19	-	75	168	389	451	408	418	250	378	131	94	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	851	40.0	288.00	277.00	254.00-330.00	-	-	-	29	113	101	183	142	21	25	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	1,914	38.0	277.00	270.88	238.00-301.00	19	-	75	140	258	260	216	276	239	175	82	84	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	164	40.0	303.00	300.00	232.00-342.00	19	-	-	-	9	2	-	8	18	24	1	20	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Order clerks	3,630	38.5	331.00	308.88	272.00-375.00	-	-	123	143	189	187	588	455	389	600	394	230	81	40	155	164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	1,884	40.0	310.00	294.00	277.00-338.50	-	-	-	20	110	70	492	333	284	420	110	82	2	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	1,788	38.5	363.50	334.88	298.00-427.50	-	-	123	123	79	117	184	122	139	190	184	138	88	40	114	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Order clerks I	1,872	38.5	287.50	290.00	242.50-328.00	-	-	123	143	189	148	224	246	240	282	203	81	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	888	40.0	307.50	308.88	288.00-340.50	-	-	-	20	110	29	80	123	182	253	80	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	984	38.0	288.50	283.00	218.50-350.00	-	-	123	123	79	117	184	122	88	38	123	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Order clerks II	1,758	40.0	377.50	356.50	290.50-458.50	-	-	-	-	-	41	342	210	150	308	91	189	91	37	152	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accounting clerks	15,186	38.5	334.00	320.00	270.00-381.00	125	-	118	578	848	1212	1522	1421	1479	2753	1518	1117	887	430	354	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	5,651	38.5	301.50	323.00	274.50-374.00	-	-	-	44	188	691	508	588	403	1051	687	384	101	181	31	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	10,144	38.5	335.00	320.00	270.00-387.00	125	-	118	532	782	521	1014	883	1078	1702	1132	739	688	289	523	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	1,404	40.0	425.50	440.00	348.50-511.50	-	-	-	-	2	32	62	64	69	148	62	225	203	105	308	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accounting clerks I	1,881	38.0	346.50	248.00	220.00-272.00	125	-	83	133	388	407	189	189	103	89	10	14	4	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	425	40.0	253.50	248.00	240.00-272.00	-	-	-	2	73	230	35	61	14	8	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nonmanufacturing	1,263	38.0	344.50	238.50	218.50-272.50	125	-	83	131	323	177	154	125	88	12	10	14	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accounting clerks II	6,649	38.5	318.50	308.00	288.00-352.00	-	-	8	190	452	629	834	703	875	1448	887	271	418	51	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	2,546	38.5	308.00	300.00	285.50-360.00	-	-	-	41	84	441	281	371	328	584	288	108	43	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	4,103	38.5	324.50	312.00	273.50-380.00	-	-	8	148	368	186	563	332	547	884	388	183	375	50	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	454	40.0	388.50	375.00	307.00-439.50	-	-	-	-	2	25	21	40	54	53	38	114	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Los Angeles-Long Beach, CA, October 1995 —Continued

Occupation and industry division	Number of workers	Average weekly hours (stand-ard)	Weekly earnings (in dollars) ^a			Number of workers receiving straight-time weekly earnings (in dollars) of —																							
			Mean ^b	Median ^c	Middle range ^d	140 and under 180	180 - 190	190 - 200	200 - 220	220 - 240	240 - 260	260 - 280	280 - 300	300 - 320	320 - 360	360 - 400	400 - 440	440 - 480	480 - 520	520 - 560	560 - 600	600 - 640	640 - 680	680 - 720	720 - 780	780 and over			
Accounting clerks II.....	4,811	38.5	377.00	388.00	312.00- 437.50	-	-	-	21	48	48	343	496	383	954	784	549	505	229	430	12	-	-	-	-	-	-		
Manufacturing.....	1,987	38.5	384.50	388.00	314.00- 426.00	-	-	-	1	29	20	192	134	57	433	300	142	241	114	4	-	-	-	-	-	-			
Nonmanufacturing.....	3,144	38.5	384.00	388.50	311.50- 447.50	-	-	-	20	20	28	151	362	326	521	494	407	284	115	428	12	-	-	-	-	-			
Transportation and utilities.....	817	40.0	483.80	447.50	403.00- 537.50	-	-	-	-	-	5	27	22	13	88	11	118	186	58	290	-	-	-	-	-	-			
Accounting clerks IV.....	1,008	38.8	424.90	464.00	371.50- 478.00	-	-	-	-	-	-	-	8	12	198	225	247	70	93	41	114	-	-	-	-	-			
Manufacturing.....	408	38.5	421.50	464.00	360.00- 452.00	-	-	-	-	-	-	-	-	2	51	98	133	47	44	22	6	-	-	-	-				
Nonmanufacturing.....	603	38.5	428.80	464.50	361.00- 501.00	-	-	-	-	-	-	-	8	10	145	127	114	23	49	19	108	-	-	-	-				
Transportation and utilities.....	108	38.5	481.00	501.00	480.00- 530.00	-	-	-	-	-	-	-	-	1	2	12	4	7	47	19	14	-	-	-	-				
Payroll clerks.....	1,772	38.5	352.58	328.00	300.00- 400.00	-	9	3	28	39	132	84	129	280	375	284	203	78	51	93	24	-	-	-	-	-			
Manufacturing.....	630	38.5	348.00	328.00	295.00- 400.00	-	-	-	-	30	41	-	100	106	88	83	133	7	39	5	-	-	-	-	-				
Nonmanufacturing.....	1,142	38.5	355.00	344.00	300.00- 398.00	-	9	3	28	9	81	84	29	154	280	181	70	71	12	88	24	-	-	-	-				
Transportation and utilities.....	164	38.5	433.90	488.00	380.50- 511.50	-	-	-	-	-	-	7	1	9	13	23	24	44	7	36	-	-	-	-	-				
Key entry operators.....	7,288	38.5	298.50	288.50	242.50- 344.00	-	82	381	704	585	748	638	896	888	1191	568	252	443	85	14	3	-	-	-	-	-			
Manufacturing.....	1,914	38.5	321.80	321.50	287.00- 383.50	-	-	-	29	22	220	126	135	258	483	382	188	37	15	14	3	-	-	-	-				
Nonmanufacturing.....	5,388	38.5	288.80	278.00	230.00- 322.00	-	62	381	675	543	538	510	764	400	728	208	84	408	70	-	-	-	-	-	-				
Transportation and utilities.....	582	40.0	388.80	488.00	302.50- 451.50	-	38	19	-	5	17	18	48	41	77	28	71	234	-	-	-	-	-	-	-				
Key entry operators I.....	4,371	38.5	292.50	285.00	243.50- 322.00	-	79	172	284	285	584	475	722	408	655	211	88	254	85	-	-	-	-	-	-				
Manufacturing.....	881	38.5	292.00	287.00	234.00- 320.00	-	-	-	29	22	220	86	129	148	147	88	5	-	9	-	-	-	-	-	-				
Nonmanufacturing.....	3,510	38.5	292.50	282.00	240.00- 322.00	-	79	172	236	283	374	389	583	281	508	145	81	254	98	-	-	-	-	-	-				
Transportation and utilities.....	472	40.0	355.00	388.60	288.00- 447.50	-	38	19	-	5	17	18	48	40	56	11	88	155	-	-	-	-	-	-	-				
Key entry operators II.....	2,830	38.5	307.80	309.50	225.00- 360.00	-	3	189	440	180	152	183	151	237	536	377	188	189	20	14	3	-	-	-	-				
Manufacturing.....	1,055	38.5	388.89	380.00	234.50- 387.00	-	-	-	-	-	-	42	6	150	318	318	183	37	8	14	3	-	-	-	-				
Nonmanufacturing.....	1,787	38.0	274.50	248.50	207.50- 322.00	-	3	189	440	180	152	121	145	87	220	81	3	152	14	-	-	-	-	-	-				

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Average weekly hours (standard)	Weekly earnings (in dollars) ^a			Number of workers receiving straight-time weekly earnings (in dollars) of —																							
			Mean ^b	Median ^b	Middle range ^b	Under 240	240 and under 260	260 — 280	280 — 300	300 — 320	320 — 340	340 — 360	360 — 380	380 — 400	400 — 420	420 — 440	440 — 460	460 — 480	480 — 500	500 — 540	540 — 580	580 — 620	620 — 660	660 — 700	700 — 740	740 — 820	820 — 900	900 — 980	980 — 1060
Computer systems analysts (business) I.....	3,981	39.5	662.00	665.50	583.00—756.00	-	-	-	-	-	-	-	21	59	197	251	274	353	403	354	483	389	622	362	272	172	11	-	-
Manufacturing.....	2,037	40.0	661.50	660.00	546.00—750.00	-	-	-	-	-	-	-	4	22	99	94	245	210	211	183	277	174	301	157	77	3	-	-	
Nonmanufacturing.....	1,944	39.5	672.50	678.00	582.00—771.00	-	-	-	-	-	-	-	17	37	98	157	29	143	192	191	206	215	321	235	95	-	-	-	
Computer systems analysts (business) II.....	904	40.0	536.00	538.50	485.00—581.50	-	-	-	-	-	-	-	4	41	109	127	186	125	140	61	41	7	3	-	-	-	-	-	
Manufacturing.....	675	40.0	537.00	538.50	496.00—580.00	-	-	-	-	-	-	-	4	22	55	91	181	150	111	33	21	6	1	-	-	-	-	-	
Nonmanufacturing.....	229	39.5	529.00	548.00	438.50—613.00	-	-	-	-	-	-	-	-	19	54	36	5	35	29	26	20	1	2	-	-	-	-	-	
Computer systems analysts (business) III.....	1,513	39.5	648.50	645.00	583.00—710.00	-	-	-	-	-	-	-	-	1	47	77	83	157	229	243	261	183	186	55	12	-	-	-	
Manufacturing.....	684	40.0	640.50	646.00	585.50—695.00	-	-	-	-	-	-	-	-	44	3	64	55	97	105	154	69	71	20	2	-	-	-	-	
Nonmanufacturing.....	829	39.0	651.50	641.50	583.00—721.50	-	-	-	-	-	-	-	-	1	3	74	19	102	131	136	107	94	115	35	10	-	-	-	
Computer systems analysts (business) IV.....	1,269	39.5	778.00	770.00	715.00—830.00	-	-	-	-	-	-	-	-	-	-	-	-	5	11	19	50	181	219	420	324	180	11	-	
Manufacturing.....	679	39.5	777.50	780.00	726.00—825.50	-	-	-	-	-	-	-	-	-	-	-	-	5	3	25	102	99	229	137	75	3	-	-	
Nonmanufacturing.....	721	39.5	778.50	759.00	713.00—830.00	-	-	-	-	-	-	-	-	-	-	-	-	5	8	15	29	79	120	191	85	8	-	-	
Transportation and utilities.....	106	39.5	834.00	870.00	691.00—927.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	25	5	3	20	39	8	-	-	
Computer programmers (business) I.....	3,444	39.5	532.00	535.00	443.50—611.50	-	31	33	-	19	14	167	59	298	321	487	335	502	436	264	179	186	65	55	1	-	-	-	
Manufacturing.....	821	39.5	523.00	526.00	464.00—580.00	-	-	2	-	1	2	-	43	80	98	190	69	305	109	44	27	40	10	1	-	-	-	-	
Nonmanufacturing.....	2,523	39.5	535.00	538.50	441.50—617.50	-	31	31	-	19	12	167	16	298	223	297	295	297	329	230	152	145	85	55	1	-	-	-	
Transportation and utilities.....	321	40.0	602.50	590.50	542.50—638.50	-	-	-	-	-	-	-	-	-	-	-	27	43	85	58	34	18	23	21	13	1	-	-	
Computer programmers (business) II.....	675	39.5	424.80	404.00	372.50—486.00	-	-	2	-	19	12	88	53	199	118	109	27	9	9	27	2	1	-	-	-	-	-	-	
Manufacturing.....	224	40.0	432.50	435.00	361.50—475.00	-	-	2	-	1	-	-	43	39	64	55	16	4	1	-	-	-	-	-	-	-	-	-	
Nonmanufacturing.....	451	39.5	420.50	400.00	346.50—498.50	-	-	-	-	18	12	88	10	161	54	54	11	5	8	27	2	1	-	-	-	-	-	-	
Computer programmers (business) III.....	1,156	39.5	542.00	540.00	482.00—609.00	-	-	-	-	-	-	-	8	63	127	216	164	214	112	113	86	51	4	-	-	-	-	-	
Manufacturing.....	378	39.5	527.50	515.00	484.50—570.00	-	-	-	-	-	-	-	-	42	34	94	34	93	40	8	4	20	-	-	-	-	-	-	
Nonmanufacturing.....	777	39.5	549.50	542.50	470.00—631.00	-	-	-	-	-	-	-	6	21	93	122	130	121	72	105	82	21	4	-	-	-	-	-	
Transportation and utilities.....	141	40.0	589.00	567.00	542.50—669.50	-	-	-	-	-	-	-	-	-	-	7	24	44	28	2	14	18	4	-	-	-	-	-	
Computer programmers (business) IV.....	1,093	39.5	609.50	600.00	544.00—685.00	-	-	-	-	-	-	-	-	24	120	113	221	211	124	91	71	61	58	1	-	-	-	-	
Manufacturing.....	314	39.5	583.50	589.00	554.00—620.00	-	-	-	-	-	-	-	-	-	-	41	19	106	86	36	23	10	10	1	-	-	-	-	
Nonmanufacturing.....	779	39.5	620.00	607.50	538.50—685.00	-	-	-	-	-	-	-	-	24	79	94	115	143	88	66	61	51	55	1	-	-	-	-	
Transportation and utilities.....	112	40.0	640.00	592.00	544.00—781.50	-	-	-	-	-	-	-	-	-	-	11	36	25	5	-	-	4	17	13	1	-	-	-	
Computer operators I.....	4,127	39.5	405.00	393.00	354.00—482.00	31	53	20	141	184	392	383	468	810	579	567	238	147	82	17	2	4	1	-	-	-	-	-	
Manufacturing.....	1,723	40.0	409.50	403.00	380.00—444.50	-	22	1	49	81	64	190	240	373	355	178	96	48	19	12	2	4	1	-	-	-	-	-	
Nonmanufacturing.....	2,404	39.5	403.50	398.50	337.00—465.00	31	31	19	92	113	329	193	226	437	224	391	152	99	63	5	-	-	-	-	-	-	-	-	
Transportation and utilities.....	314	40.0	449.50	465.00	404.00—489.00	-	4	-	2	2	4	16	9	55	13	159	27	17	6	-	-	-	-	-	-	-	-	-	
Computer operators II.....	1,089	39.5	352.50	354.00	308.00—390.00	31	50	12	105	145	107	194	83	214	27	113	8	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing.....	562	40.0	352.00	355.00	321.00—392.50	-	22	1	29	80	41	179	61	122	19	8	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing.....	527	39.5	352.50	328.00	290.00—400.00	31	28	11	76	85	66	15	22	92	8	105	8	-	-	-	-	-	-	-	-	-	-	-	
Computer operators III.....	2,062	39.5	410.50	392.50	380.00—480.00	-	3	8	25	45	228	182	299	509	238	277	153	79	37	1	-	-	-	-	-	-	-	-	
Manufacturing.....	764	40.0	423.50	415.50	380.00—460.50	-	-	-	20	1	3	11	147	205	184	115	54	18	5	1	-	-	-	-	-	-	-	-	
Nonmanufacturing.....	1,318	39.5	403.00	380.00	342.00—485.00	-	3	6	15	44	225	171	141	304	54	162	99	60	32	-	-	-	-	-	-	-	-	-	
Transportation and utilities.....	149	40.0	431.50	446.50	398.00—469.00	-	-	-	-	-	-	18	8	48	9	51	11	6	-	-	-	-	-	-	-	-	-	-	
Computer operators IV.....	855	39.5	485.00	450.00	425.00—496.00	-	-	-	1	4	32	7	56	87	289	174	89	68	45	18	2	4	1	-	-	-	-	-	
Manufacturing.....	397	39.5	482.00	444.50	420.00—496.00	-	-	-	-	-	-	20	-	32	46	152	33	32	30	14	11	2	4	1	-	-	-	-	
Nonmanufacturing.....	456	39.0	467.00	480.50	430.50—496.00	-	-	-	1	4	12	7	24	41	137	121	37	38	31	5	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Los Angeles-Long Beach, CA, October 1985 —Continued

Occupation and industry division	Number of workers	Average weekly hours (standard)	Weekly earnings (in dollars)*			Number of workers receiving straight-time weekly earnings (in dollars) of —																																																																									
			Mean†	Median†	Middle range†	Under 240	240 and under 290	290 - 299	300 - 309	310 - 319	320 - 329	330 - 339	340 - 349	350 - 359	360 - 369	370 - 379	380 - 389	390 - 399	400 - 409	410 - 419	420 - 429	430 - 439	440 - 449	450 - 459	460 - 469	470 - 479	480 - 489	490 - 499	500 - 509	510 - 519	520 - 529	530 - 539	540 - 549	550 - 559	560 - 569	570 - 579	580 - 589	590 - 599	600 - 609	610 - 619	620 - 629	630 - 639	640 - 649	650 - 659	660 - 669	670 - 679	680 - 689	690 - 699	700 - 709	710 - 719	720 - 729	730 - 739	740 - 749	750 - 759	760 - 769	770 - 779	780 - 789	790 - 799	800 - 809	810 - 819	820 - 829	830 - 839	840 - 849	850 - 859	860 - 869	870 - 879	880 - 889	890 - 899	900 - 909	910 - 919	920 - 929	930 - 939	940 - 949	950 - 959	960 - 969	970 - 979	980 - 989	990 - 999	1000 - 1009

Computer data librarians Nonmanufacturing	187	38.5	343.50	339.50	256.00- 452.00	* 32	19	18	12	11	27	8	2	8	18	12	12	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Los Angeles-Long Beach, CA, October 1985

Sex,* occupation, and industry division	Number of workers	Average (mean) [†]		Sex,* occupation, and industry division	Number of workers	Average (mean) [†]		Sex,* occupation, and industry division	Number of workers	Average (mean) [†]	
		Weekly hours* (stand-ard)	Weekly earnings (in dollars) [‡]			Weekly hours* (stand-ard)	Weekly earnings (in dollars) [‡]			Weekly hours* (stand-ard)	Weekly earnings (in dollars) [‡]
Office occupations - men				Typists I.....	644	38.5	340.50	Accounting clerks III.....	4,178	38.5	374.50
File clerks.....	162	37.5	251.50	Manufacturing.....	380	40.0	362.50	Manufacturing.....	1,507	38.5	365.00
Messengers.....	625	38.5	252.00	Nonmanufacturing.....	294	38.5	257.00	Nonmanufacturing.....	2,671	38.5	360.00
Manufacturing.....	298	38.5	245.50	Typists II.....	576	38.0	323.00	Transportation and utilities.....	864	40.0	448.50
Nonmanufacturing.....	327	38.5	257.50	Word processors.....	2,178	38.0	350.00	Accounting clerks IV.....	815	38.5	420.50
Order clerks.....	1,038	40.0	368.50	Manufacturing.....	773	40.0	360.00	Manufacturing.....	354	38.0	422.50
Accounting clerks:				Nonmanufacturing.....	1,403	38.5	333.50	Nonmanufacturing.....	481	38.5	419.00
Manufacturing.....	482	39.0	352.00	Transportation and utilities.....	164	40.0	390.50	Transportation and utilities.....	86	38.5	491.00
Accounting clerks I.....	153	38.5	253.00	Word processors I.....	934	38.0	329.50	Payroll clerks.....	1,538	38.5	345.00
Accounting clerks II:				Manufacturing.....	170	38.5	344.50	Manufacturing.....	533	38.5	342.00
Manufacturing.....	263	38.0	339.00	Nonmanufacturing.....	764	38.0	326.00	Nonmanufacturing.....	1,008	38.5	347.00
Accounting clerks III.....	624	40.0	395.00	Word processors II.....	1,342	38.0	365.50	Transportation and utilities.....	131	38.5	431.00
Manufacturing.....	180	38.0	356.50	Manufacturing.....	603	40.0	360.00	Key entry operators:			
Nonmanufacturing.....	464	40.0	408.50	Nonmanufacturing.....	636	38.5	342.50	Manufacturing.....	1,771	38.5	332.50
Transportation and utilities.....	153	40.0	474.00	File clerks.....	1,675	38.5	337.50	Key entry operators I.....	3,943	38.5	290.50
Payroll clerks.....	210	38.5	405.50	Manufacturing.....	174	40.0	278.50	Manufacturing.....	788	38.5	295.00
Office occupations - women				Nonmanufacturing.....	1,501	38.5	233.00	Nonmanufacturing.....	3,146	38.5	289.50
Secretaries.....	21,270	38.5	426.00	Transportation and utilities.....	120	40.0	262.50	Transportation and utilities.....	417	40.0	347.50
Manufacturing.....	12,367	39.5	420.00	File clerks I.....	1,284	38.5	219.00	Key entry operators II:			
Nonmanufacturing.....	8,903	39.0	434.00	Nonmanufacturing.....	1,173	38.5	214.50	Manufacturing.....	673	38.5	363.00
Transportation and utilities.....	1,279	38.0	448.00	File clerks II.....	327	38.5	268.00	Professional and technical occupations - men			
Secretaries I.....	2,331	38.5	386.00	Nonmanufacturing.....	266	38.0	266.50	Computer systems analysts			
Manufacturing.....	390	40.0	342.00	Receptionists.....	685	38.5	310.50	(business).....	2,447	38.5	661.00
Nonmanufacturing.....	1,941	39.0	370.50	Manufacturing.....	322	38.0	316.00	Manufacturing.....	1,146	40.0	673.50
Transportation and utilities.....	103	40.0	364.50	Nonmanufacturing.....	373	38.5	306.00	Nonmanufacturing.....	1,301	38.5	667.50
Secretaries II.....	5,339	38.0	361.50	Switchboard operators.....	1,153	38.5	261.00	Computer systems analysts			
Manufacturing.....	3,473	38.0	361.00	Manufacturing.....	403	38.5	253.00	(business) I.....	481	38.5	631.00
Nonmanufacturing.....	298	38.0	362.00	Nonmanufacturing.....	750	38.5	253.50	Manufacturing.....	310	38.5	636.00
Transportation and utilities.....				Switchboard operator-receptionists.....	2,736	38.5	279.50	Nonmanufacturing.....	151	38.5	615.50
Secretaries III.....	7,973	38.5	427.00	Manufacturing.....	851	40.0	286.00	Computer systems analysts			
Manufacturing.....	5,039	38.5	414.00	Nonmanufacturing.....	1,687	38.5	276.50	(business) II.....	883	38.5	664.50
Nonmanufacturing.....				Transportation and utilities.....	104	40.0	303.00	Manufacturing.....	367	40.0	698.00
Transportation and utilities.....	613	38.0	445.50	Order clerks.....	2,582	38.5	315.50	Nonmanufacturing.....	486	38.0	668.50
Secretaries IV.....	2,812	39.5	482.00	Manufacturing.....	1,680	40.0	299.50	Computer systems analysts			
Manufacturing.....	1,740	40.0	480.50	Nonmanufacturing.....	912	38.0	345.00	(business) III.....	986	38.5	784.00
Nonmanufacturing.....				Order clerks I.....	1,421	38.5	293.00	Manufacturing.....	439	38.5	782.50
Transportation and utilities.....	149	40.0	540.50	Nonmanufacturing.....	615	38.5	276.00	Nonmanufacturing.....	556	38.5	785.00
Secretaries V.....	1,448	39.5	541.50	Order clerks II.....	1,171	40.0	343.00	Transportation and utilities.....	79	40.0	840.00
Manufacturing.....	950	39.5	536.50	Accounting clerks.....	12,626	38.5	329.50	Computer programmers (business).....	2,008	38.5	590.00
Nonmanufacturing.....	498	40.0	545.00	Manufacturing.....	4,569	38.5	329.50	Manufacturing.....	557	40.0	545.50
Transportation and utilities.....	103	38.5	568.50	Nonmanufacturing.....	8,057	38.5	329.00	Nonmanufacturing.....			
Stenographers.....	361	40.0	386.00	Accounting clerks I.....	1,513	38.5	247.50	Transportation and utilities.....	169	40.0	615.00
Typists.....	1,220	38.5	332.00	Manufacturing.....	418	40.0	253.00	Computer programmers			
Manufacturing.....	773	38.5	354.00	Nonmanufacturing.....	1,085	38.5	245.50	(business) I.....	366	38.5	425.50
				Accounting clerks II.....	5,259	38.5	313.50	Manufacturing.....	102	40.0	441.50
				Manufacturing.....	2,293	38.5	305.50	Nonmanufacturing.....	254	38.5	419.50

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Los Angeles-Long Beach, CA, October 1985 —Continued

Sex, occupation, and industry division	Number of workers	Average (mean) ^a		Sex, occupation, and industry division	Number of workers	Average (mean) ^a		Sex, occupation, and industry division	Number of workers	Average (mean) ^a	
		Weekly hours (standard)	Weekly earnings (in dollars) ^b			Weekly hours (standard)	Weekly earnings (in dollars) ^b			Weekly hours (standard)	Weekly earnings (in dollars) ^b
Computer programmers (business) II	602	40.0	564.00	Electronics technicians I	657	40.0	409.00	Computer programmers (business) II	482	38.5	513.50
Manufacturing	195	39.5	565.50	Manufacturing	605	40.0	406.50	Manufacturing	184	37.5	486.50
Nonmanufacturing	407	40.0	565.00	Electronics technicians II: Manufacturing	657	40.0	472.50	Nonmanufacturing	308	38.5	529.50
Transportation and utilities	92	40.0	565.50	Electronics technicians II: Manufacturing	2,301	40.0	539.50	Transportation and utilities	59	40.0	576.50
Computer programmers (business) II	799	39.5	614.50	Manufacturing	1,734	40.0	514.50	Computer programmers (business) II	314	39.0	597.50
Nonmanufacturing	513	39.5	626.00	Professional and technical occupations - women				Nonmanufacturing	256	39.0	590.00
Computer operators	2,746	39.5	410.00	Computer systems analysts (business)	1,506	39.5	623.50	Computer operators: Manufacturing	483	40.0	406.50
Manufacturing	1,240	39.5	409.50	Manufacturing	891	40.0	623.00	Computer operators I: Manufacturing	201	38.5	370.00
Computer operators I: Manufacturing	381	40.0	342.00	Nonmanufacturing	615	39.5	648.50	Computer operators II: Manufacturing	244	40.0	427.50
Computer operators II: Manufacturing	530	40.0	422.00	Transportation and utilities	174	40.0	711.00	Computer data librarians	82	40.0	392.00
Nonmanufacturing	126	40.0	429.50	Computer systems analysts (business) I	437	40.0	540.00	Drafters	280	40.0	402.50
Transportation and utilities	752	39.5	469.00	Manufacturing	385	40.0	506.00	Manufacturing	238	40.0	396.00
Computer operators III	359	39.5	469.50	Computer systems analysts (business) II	608	39.5	623.50	Drafters II	104	40.0	366.50
Manufacturing	395	39.0	471.50	Manufacturing	257	39.5	614.00	Manufacturing	99	40.0	381.00
Nonmanufacturing	129	39.0	380.00	Nonmanufacturing	321	39.0	631.50	Drafters IV	110	40.0	444.50
Computer data librarians	129	39.0	380.00	Transportation and utilities	100	40.0	731.50	Manufacturing	105	40.0	434.50
Drafters	1,591	40.0	489.00	Computer systems analysts (business) III	394	40.0	768.50	Electronics technicians: Manufacturing	449	40.0	452.50
Manufacturing	891	40.0	397.50	Manufacturing	239	40.0	767.50	Electronics technicians II: Manufacturing	184	40.0	448.00
Drafters II	230	40.0	299.00	Nonmanufacturing	156	39.5	770.00	Electronics technicians II: Manufacturing	131	40.0	494.00
Manufacturing	196	40.0	291.50	Computer programmers (business): Manufacturing	384	38.5	489.00	Registered industrial nurses	151	40.0	541.00
Drafters III	308	40.0	367.00	Nonmanufacturing	158	40.0	580.50	Manufacturing	116	40.0	539.50
Manufacturing	230	40.0	394.50	Transportation and utilities							
Drafters IV	427	40.0	479.50	Computer programmers (business) I	315	39.5	424.00				
Manufacturing	312	40.0	451.00	Nonmanufacturing	193	39.0	423.50				
Electronics technicians: Manufacturing	3,226	40.0	492.50								

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Hourly earnings (in dollars) ^a			Number of workers receiving straight-time hourly earnings (in dollars) of --																							
		Mean ^b	Median ^b	Middle range ^b	Under 6.00	6.00 and under 6.50	6.50 7.00	7.00 7.50	7.50 8.00	8.00 8.50	8.50 9.00	9.00 9.50	9.50 10.00	10.00 10.50	10.50 11.00	11.00 11.50	11.50 12.00	12.00 12.50	12.50 13.00	13.00 13.50	13.50 14.00	14.00 14.50	14.50 15.00	15.00 16.00	16.00 17.00	17.00 18.00	18.00 and over	
Maintenance carpenters	564	13.71	14.05	11.95-15.47	-	-	-	-	-	-	-	8	8	-	10	60	44	15	5	43	52	58	51	118	34	7	-	-
Manufacturing	357	13.39	13.73	11.25-14.99	-	-	-	-	-	-	-	8	8	-	-	60	23	14	3	8	48	58	43	98	4	-	-	-
Nonmanufacturing	167	14.36	15.47	13.25-15.47	-	-	-	-	-	-	-	-	-	-	10	-	21	1	2	35	3	-	8	60	30	7	-	-
Maintenance electricians	1,500	14.03	14.29	12.55-15.77	-	-	-	-	-	-	-	111	-	-	4	31	182	75	32	271	69	49	9	474	165	18	43	-
Manufacturing	1,230	14.17	14.11	13.00-15.60	-	-	-	-	-	-	-	-	-	-	4	31	182	75	22	254	69	47	7	443	74	-	42	-
Nonmanufacturing	260	13.43	14.50	9.40-16.84	-	-	-	-	-	-	-	111	-	-	-	-	-	-	10	17	-	2	2	31	91	16	-	-
Maintenance painters	342	13.47	13.69	12.15-14.83	-	-	-	-	-	-	-	10	1	7	48	4	15	4	5	43	48	72	34	35	28	-	-	-
Manufacturing	261	13.10	13.62	11.39-14.32	-	-	-	-	-	-	-	10	1	7	44	4	15	4	5	38	48	60	-	4	25	-	-	-
Maintenance machinists	464	16.13	17.37	15.27-17.37	-	-	-	-	-	-	-	-	-	-	-	-	60	-	13	2	5	2	6	103	3	250	* 50	-
Manufacturing	477	16.23	17.37	15.41-17.37	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	2	5	2	6	99	3	280	90	-
Maintenance mechanics (machinery)	2,912	13.32	12.89	12.50-15.05	-	-	-	-	-	-	-	111	41	45	4	301	34	146	983	66	94	223	61	761	-	50	-	-
Manufacturing	2,686	13.27	12.75	12.51-15.04	-	-	-	-	-	-	-	-	41	45	4	301	34	146	983	79	94	223	41	662	-	50	-	-
Motor vehicle mechanics	1,291	14.18	14.69	13.25-15.25	-	-	-	-	-	-	9	3	23	4	5	170	5	42	59	32	99	172	189	313	88	88	-	-
Manufacturing	214	14.22	13.61	13.25-15.04	-	-	-	-	-	-	-	-	1	-	-	1	-	40	32	39	14	9	43	1	33	-	-	
Nonmanufacturing	1,077	14.15	14.75	12.75-15.25	-	-	-	-	-	-	9	3	22	4	5	169	4	42	19	-	59	158	181	270	67	65	-	-
Transportation and utilities	739	14.35	14.77	12.75-15.64	-	-	-	-	-	-	7	3	22	4	5	89	3	42	18	-	38	111	45	221	85	64	-	-
Maintenance workers (general)	2,306	9.09	8.86	7.30-10.62	167	236	2	179	197	305	148	238	280	11	58	58	186	62	34	185	4	3	60	-	-	-	-	-
Manufacturing	767	9.68	9.00	7.75-9.88	39	71	2	62	41	49	70	113	160	1	36	-	37	2	10	71	-	-	-	-	-	-	-	-
Nonmanufacturing	1,499	9.10	8.50	7.50-11.62	* 168	169	-	97	156	196	78	125	160	10	19	98	129	60	14	86	4	3	60	-	-	-	-	-
Maintenance truck helpers	625	8.87	8.46	7.00-10.53	4	31	71	79	34	45	9	8	12	98	46	34	25	19	11	-	-	-	-	-	-	-	-	-
Manufacturing	494	8.40	7.75	6.75-10.50	4	31	71	75	33	35	-	4	12	89	10	4	24	1	11	-	-	-	-	-	-	-	-	-
Tool and die makers	1,221	14.87	14.87	14.10-15.67	-	-	-	-	-	-	-	-	-	-	-	1	60	3	2	79	35	232	247	385	194	-	-	-
Manufacturing	1,221	14.87	14.87	14.10-15.67	-	-	-	-	-	-	-	-	-	-	-	1	60	3	2	79	35	232	247	385	194	-	-	-
Stationary engineers	989	16.16	16.80	15.47-18.90	-	-	-	-	-	-	-	1	-	1	-	1	2	3	46	7	8	47	30	155	531	124	-	-
Manufacturing	357	15.71	16.32	14.40-17.65	-	-	-	-	-	-	-	-	-	1	-	1	2	1	43	4	7	40	28	40	46	124	-	-

^a All workers were at \$16.00 to \$18.00.^b * Workers were distributed as follows: 100 at \$5.00 to \$5.50; and 99 at \$5.50 to \$6.00.

Also see footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Hourly earnings (in dollars) ^a			Number of workers receiving straight-time hourly earnings (in dollars) of --																								
		Mean ^b	Median ^b	Middle range ^b	3.00 and under 3.50	3.50 4.00	4.00 4.50	4.50 5.00	5.00 5.50	5.50 6.00	6.00 6.50	6.50 7.00	7.00 7.50	7.50 8.00	8.00 8.50	8.50 9.00	9.00 9.50	9.50 10.00	10.00 10.50	10.50 11.00	11.00 11.50	11.50 12.00	12.00 13.00	13.00 14.00	14.00 15.00	15.00 16.00	16.00 17.00		
Truckdrivers	16,543	10.99	11.37	8.25-13.99	-	-	593	399	304	585	582	344	384	582	602	710	495	272	292	1884	723	1223	915	1616	2363	1399	125		
Manufacturing	3,179	10.92	11.08	8.00-13.78	-	-	-	-	81	82	167	82	253	100	219	33	33	241	89	38	53	443	75	539	525	5	125		
Nonmanufacturing	13,464	10.96	11.02	8.50-13.99	-	-	593	399	243	503	395	262	111	482	478	677	482	31	203	1848	670	780	840	1380	1838	1394	-		
Transportation and utilities	5,219	11.09	13.87	7.80-15.38	-	-	418	208	180	144	80	18	28	280	-	-	-	2	9	2	422	291	380	1370	32	1364	-		
Truckdrivers, light truck	1,987	9.91	9.90	4.50- 6.30	-	-	488	248	277	401	277	57	41	43	5	47	2	2	1	43	11	80	19	3	19	-	-		
Manufacturing	274	9.20	9.90	5.50-11.95	-	-	-	-	40	82	-	41	41	2	5	1	2	-	1	1	2	42	14	2	18	-	-		
Nonmanufacturing	1,720	9.48	9.25	4.25- 6.00	-	-	455	248	237	339	277	16	-	41	-	46	-	2	-	42	9	6	4	1	-	-	-		
Truckdrivers, medium truck	6,448	11.45	10.90	9.37-13.87	-	-	-	-	41	-	189	204	251	135	482	187	289	185	177	1385	74	87	542	894	90	1187	-		
Manufacturing	1,123	9.88	9.89	7.00- 9.70	-	-	-	-	41	-	129	41	209	38	210	29	30	185	3	30	-	67	14	39	42	-	-		
Nonmanufacturing	5,325	12.01	12.49	10.00-13.87	-	-	-	-	-	-	40	183	42	97	272	158	289	-	174	1385	74	-	539	936	48	1187	-		
Transportation and utilities	2,299	14.42	15.39	13.87-15.38	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	74	-	115	930	-	1187	-		
Truckdrivers, heavy truck	942	10.89	9.09	7.80-13.99	-	-	-	-	-	-	41	-	-	280	-	-	111	-	9	-	104	-	3	104	85	-	135		
Truckdrivers, tractor-trailer	6,690	12.50	13.99	11.49-14.13	-	-	-	-	-	-	-	-	31	80	34	221	82	105	105	489	534	1082	112	548	2172	227	-		
Manufacturing	1,399	12.54	13.99	11.09-14.09	-	-	-	-	-	-	-	-	3	80	3	3	-	78	86	7	10	314	49	325	438	-	-		
Nonmanufacturing	4,471	12.49	12.99	11.09-14.13	-	-	-	-	-	-	-	-	28	-	21	288	82	29	20	448	534	789	68	223	1748	227	-		
Transportation and utilities	1,040	12.82	11.82	11.49-13.99	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-	277	299	-	230	-	227	-		
Shippers	674	9.27	8.37	8.35-11.95	-	-	-	30	-	40	74	42	1	-	57	127	291	5	2	2	-	129	94	21	-	-	-		
Manufacturing	473	9.94	11.95	8.75-11.95	-	-	-	30	-	-	74	42	1	-	14	82	2	3	-	2	-	129	94	21	-	-	-		
Receivers	1,891	9.89	9.85	7.45- 9.37	-	-	-	30	187	41	58	21	143	35	79	537	189	15	13	19	53	132	55	81	2	34	8		
Manufacturing	899	9.78	8.30	7.35-11.95	-	-	-	30	71	-	8	13	87	35	61	75	4	5	1	7	8	130	55	-	-	-	-		
Nonmanufacturing	1,095	9.95	9.85	8.75- 9.37	-	-	-	3	86	41	50	8	48	-	18	482	189	10	12	12	47	2	-	81	9	34	8		
Shippers and receivers	1,150	9.22	7.00	6.40-10.90	-	-	42	89	29	134	58	247	100	1	10	41	39	49	39	80	52	-	73	95	-	-	-		
Manufacturing	707	9.20	9.09	6.80-11.22	-	-	-	29	29	58	152	42	1	10	-	39	49	-	39	49	41	-	73	95	-	-	-		
Nonmanufacturing	448	9.65	6.90	5.50- 7.38	-	-	42	89	-	85	-	59	-	-	-	41	-	-	39	3	11	-	-	-	-	-	-		
Warehousemen	8,219	9.06	7.30	5.95- 9.55	-	-	189	240	1435	571	467	945	900	488	943	216	184	247	43	14	247	154	438	890	79	-	-		
Manufacturing	2,942	9.39	7.45	6.95- 9.95	-	-	-	29	48	338	392	329	258	30	105	73	43	15	12	170	49	142	124	-	-	-	-		
Nonmanufacturing	6,170	7.99	6.99	5.35- 9.55	-	-	189	240	1408	523	129	853	272	210	829	111	91	204	28	2	77	108	296	798	79	-	-		
Transportation and utilities	899	12.85	12.89	12.95-13.48	-	-	-	-	-	9	-	-	-	-	8	-	-	-	2	2	2	8	289	259	35	-	-		
Shipping partners	1,891	5.35	4.75	4.30- 6.40	-	51	392	493	154	-	307	1	181	1	-	1	3	1	1	2	-	31	2	-	-	-	-		
Manufacturing	899	5.71	5.63	4.85- 6.40	-	30	101	227	71	-	307	1	79	1	-	1	3	1	1	2	-	31	2	-	-	-	-		
Material handling laborers	3,395	9.39	8.75	5.30-13.85	-	38	315	291	250	88	94	8	18	20	1	899	139	49	64	43	1	11	312	983	1	-	-		
Nonmanufacturing	2,907	9.57	9.11	6.50-13.85	-	6	252	155	78	84	85	8	14	20	1	898	81	49	18	13	1	7	302	989	-	-	-		
Forklift operators	4,177	10.31	9.78	8.90-12.25	-	-	-	41	41	82	187	40	43	299	2	444	485	803	42	554	233	1	117	917	39	-	-		
Manufacturing	2,441	9.35	8.79	7.85-10.79	-	-	-	41	41	82	187	1	42	259	2	-	485	803	12	302	230	1	47	90	36	-	-		
Nonmanufacturing	1,736	11.65	12.89	8.90-13.99	-	-	-	-	-	-	-	39	1	40	-	444	-	-	30	252	3	-	70	857	-	-	-		
Guards	12,762	6.16	5.00	4.41- 6.80	141	1086	2151	2115	2017	873	773	914	370	194	117	310	123	135	147	159	84	198	400	657	1	-	-		
Manufacturing	1,891	11.43	12.17	10.25-13.30	-	-	-	-	30	43	34	14	23	39	48	73	39	72	122	127	71	147	355	643	1	-	-		
Nonmanufacturing	10,871	5.25	4.95	4.25- 5.75	141	1086	2151	2115	1987	930	739	900	347	155	69	237	84	83	25	31	13	49	45	14	-	-	-		
Transportation and utilities	189	10.47	11.85	9.39-12.01	-	-	-	-	7	21	7	-	-	-	-	-	-	-	-	16	13	49	45	14	-	-	-		
Guards I	11,299	5.45	5.00	4.30- 6.86	141	1086	2151	2115	1987	967	769	587	305	182	100	290	42	82	23	43	4	48	47	231	1	-	-		
Manufacturing	629	10.89	10.89	8.35-13.30	-	-	-	-	37	32	10	8	37	36	82	21	47	13	43	4	1	47	237	1	-	-	-		
Nonmanufacturing	10,671	5.14	4.90	4.25- 6.86	141	1086	2151	2115	1987	930	737	577	327	146	82	239	21	45	10	-	-	45	-	14	-	-	-		
Guards II	1,473	11.80	12.01	10.48-13.30	-	-	-	-	-	8	4	27	35	12	17	30	81	43	124	115	80	150	353	406	-	-	-		

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Los Angeles-Long Beach, CA, October 1985 —Continued

Occupation and industry division	Number of workers	Hourly earnings (in dollars) ^a			Number of workers receiving straight-time hourly earnings (in dollars) of —																							
		Mean ^b	Median ^b	Middle range ^b	3.00 and under 3.99	3.99-4.00	4.00-4.50	4.50-5.00	5.00-5.50	5.50-6.00	6.00-6.50	6.50-7.00	7.00-7.50	7.50-8.00	8.00-8.50	8.50-9.00	9.00-9.50	9.50-10.00	10.00-10.50	10.50-11.00	11.00-11.50	11.50-12.00	12.00-13.00	13.00-14.00	14.00-15.00	15.00-16.00	16.00-17.00	
Janitors, porters, and cleaners	13,275	6.29	5.75	4.34- 7.55	88	629	2970	908	1285	1412	910	299	861	1515	491	249	253	119	31	74	106	480	380	87	32	-	-	-
Manufacturing	3,048	6.34	6.09	5.62-11.53	1	-	211	202	191	321	73	142	59	57	389	172	234	108	18	62	13	395	348	20	-	-	-	-
Nonmanufacturing	10,229	5.63	5.39	4.00- 7.23	87	629	2759	706	1074	1091	837	157	822	1259	102	77	19	11	13	12	85	85	32	67	32	-	-	-
Transportation and utilities	333	11.41	11.65	11.02-13.19	-	-	18	-	2	-	-	-	-	5	-	35	-	3	1	2	63	85	30	59	32	-	-	-

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Los Angeles-Long Beach, CA, October 1985

Sex, ^a occupation, and industry division	Number of workers	Average (mean) hourly earnings (in dollars) ^b	Sex, ^a occupation, and industry division	Number of workers	Average (mean) hourly earnings (in dollars) ^b	Sex, ^a occupation, and industry division	Number of workers	Average (mean) hourly earnings (in dollars) ^b
Maintenance, toolroom, and powerplant occupations — men			Truckdrivers, light truck	1,588	5.78	Guards I	9,179	5.54
Maintenance carpenters	904	13.71	Manufacturing	271	7.98	Manufacturing	571	10.54
Manufacturing	337	13.38	Nonmanufacturing	1,715	5.43	Nonmanufacturing	8,608	5.21
Nonmanufacturing	167	14.38	Truckdrivers, medium truck	6,310	11.35	Guards II	1,262	11.73
Maintenance electricians	1,489	14.03	Manufacturing	1,121	8.85			
Manufacturing	1,219	14.17	Nonmanufacturing	5,189	11.94			
Nonmanufacturing	260	13.43	Transportation and utilities	2,161	14.39			
Maintenance painters	342	13.47	Truckdrivers, heavy truck	638	10.81	Janitors, porters, and cleaners:		
Manufacturing	281	13.10	Truckdrivers, tractor-trailer	5,758	12.48	Manufacturing	2,401	9.60
Maintenance machinists	483	16.13	Manufacturing	1,352	12.53	Nonmanufacturing		
Manufacturing	476	16.23	Nonmanufacturing	4,406	12.47	Transportation and utilities	296	11.43
Maintenance mechanics (machinery)	2,912	13.22	Transportation and utilities	1,030	12.79			
Manufacturing	2,685	13.27	Shippers	763	8.30	Material movement and custodial occupations — women		
Motor vehicle mechanics	1,280	14.17	Manufacturing	386	8.78			
Manufacturing	214	14.23	Receivers	1,589	8.83			
Nonmanufacturing	1,066	14.14	Manufacturing	540	8.71			
Transportation and utilities	730	14.35	Nonmanufacturing	1,059	8.90	Truckdrivers	214	14.68
Maintenance workers (general)	2,248	9.08	Shippers and receivers	1,067	9.14			
Manufacturing	784	9.05	Manufacturing	637	9.24			
Nonmanufacturing	1,464	9.08	Warehousemen	7,554	7.80	Warehousemen	573	10.89
Maintenance trades helpers	515	8.84	Manufacturing	1,718	8.01	Manufacturing	325	13.40
Manufacturing	367	8.36	Nonmanufacturing	5,836	7.74			
Tool and die makers	1,220	14.67	Transportation and utilities	376	12.89			
Manufacturing	1,220	14.67	Shipping packers	1,241	5.29	Guards:		
Stationary engineers			Manufacturing	569	5.75	Manufacturing	226	11.45
Manufacturing	334	15.72	Material handling laborers	3,239	9.36			
Material movement and custodial occupations — men			Nonmanufacturing	2,713	9.98	Guards I:		
Truckdrivers	18,418	10.84	Forklift operators	4,102	10.30	Manufacturing	67	10.91
Manufacturing	3,163	10.91	Manufacturing	2,408	9.36			
Nonmanufacturing	13,255	10.82	Nonmanufacturing	1,694	11.64	Janitors, porters, and cleaners:		
Transportation and utilities	5,071	11.58	Guards	10,471	6.29	Manufacturing	645	7.39
			Manufacturing	1,655	11.43			
			Nonmanufacturing	8,816	5.32			
			Transportation and utilities	146	10.85			

See footnotes at end of tables.

Table A-7. Indexes of earnings and percent increases for selected occupational groups, Los Angeles-Long Beach, CA, selected periods

Period*	All industries					Manufacturing					Nonmanufacturing			
	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Unskilled plant
Indexes (October 1977 = 100):														
October 1984	174.7	175.8	184.0	177.0	182.0	172.3	173.1	185.5	180.0	167.5	176.1	178.2	(*)	180.4
October 1985	182.6	185.5	186.2	182.8	180.4	179.9	182.6	184.2	185.9	(*)	184.0	186.0	(*)	157.0
Percent increases:														
October 1973 to October 1974	7.0	7.2	9.3	7.9	5.6	6.7	7.5	9.5	8.1	7.4	7.2	7.1	8.5	4.8
October 1974 to October 1975	8.6	8.2	8.2	8.2	6.4	5.7	10.0	9.3	8.5	7.2	8.6	7.1	8.8	6.0
October 1975 to October 1976	7.3	7.0	7.9	7.4	12.4	7.7	6.4	8.0	7.1	7.8	7.2	7.4	7.3	14.4
October 1976 to October 1977	7.4	6.6	7.4	8.6	6.7	7.2	6.3	7.5	8.6	5.7	7.5	6.8	7.0	7.1
October 1977 to October 1978	7.8	9.6	9.6	8.1	8.2	6.9	8.8	9.1	8.2	7.1	8.4	10.4	11.0	8.7
October 1978 to October 1979	9.8	8.6	8.4	9.7	11.7	9.7	8.4	8.7	10.5	8.5	10.0	8.7	7.7	12.9
October 1979 to October 1980	9.0	9.9	12.1	12.0	9.8	9.6	9.4	12.3	11.8	13.0	8.7	10.3	11.6	8.6
October 1980 to October 1981	11.1	13.1	12.8	10.2	9.9	11.1	14.0	12.4	11.5	9.9	11.1	12.6	13.9	9.9
October 1981 to October 1982	8.2	7.4	10.4	7.6	5.1	8.3	8.3	9.7	8.6	8.4	8.1	6.9	12.9	4.0
October 1982 to October 1983	6.5	5.7	8.0	8.3	4.3	5.0	5.1	6.9	5.2	3.8	7.1	6.1	(*)	4.4
October 1983 to October 1984	5.7	4.7	4.7	5.6	1.4	6.0	3.4	5.7	5.7	3.4	5.6	5.4	(*)	.8
October 1984 to October 1985	4.5	5.5	6.1	3.3	-1.0	4.4	5.5	4.7	3.3	(*)	4.5	5.5	(*)	-2.1

See footnotes at end of tables.

Table A-8. Pay relationships in establishments with paired office clerical occupations, Los Angeles-Long Beach, CA, October 1985

Occupation for which earnings are compared	Occupation for which average earnings equal 100																									
	Secretaries					Steno- graphers	Typists		Word Processors		File clerks		Mes- sengers	Recep- tionists	Switch- board operators	Switch- board op- erators- receptionists	Order clerks		Accounting clerks				Payroll clerks	Key entry operators		
	I	II	III	IV	V	I	I	II	I	II	I	II					I	II	I	II	III	IV		I	II	
Secretaries I.....	188	86	81	74	76	(*)	(*)	(*)	109	91	128	109	157	126	123	104	123	(*)	125	112	99	89	100	114	100	
Secretaries II.....	116	100	89	77	72	(*)	134	126	113	97	159	138	143	116	103	141	104	(*)	127	116	101	95	97	118	98	
Secretaries III.....	124	113	100	85	77	137	136	133	122	103	157	137	155	129	120	134	133	(*)	140	127	118	101	111	130	116	
Secretaries IV.....	135	130	117	100	86	132	144	137	148	123	173	148	183	149	134	146	133	113	158	147	128	112	128	148	143	
Secretaries V.....	132	139	130	116	100	155	154	157	155	133	174	151	201	165	154	186	180	(*)	178	157	139	124	130	156	141	
Stenographers I.....	(*)	(*)	73	76	64	100	(*)	(*)	87	77	108	101	115	98	91	(*)	(*)	(*)	107	92	89	79	81	91	93	
Typists I.....	(*)	75	74	69	65	(*)	109	80	93	76	108	99	113	(*)	95	97	(*)	(*)	102	93	83	77	90	92	81	
Typists II.....	(*)	80	75	73	64	(*)	111	100	93	81	(*)	(*)	127	108	101	105	(*)	(*)	(*)	100	92	85	90	108	88	
Word processors I.....	91	88	82	68	64	115	107	107	100	84	129	129	123	119	118	120	(*)	(*)	114	108	90	76	97	104	106	
Word processors II.....	110	103	97	81	75	131	131	123	119	100	151	120	152	119	118	120	(*)	(*)	118	121	102	96	110	123	111	
File clerks I.....	78	63	64	58	58	92	93	(*)	77	66	100	(*)	106	86	87	81	(*)	(*)	81	73	67	70	79	77	77	
File clerks II.....	91	72	73	68	66	99	101	(*)	78	83	(*)	100	146	104	93	102	(*)	(*)	88	90	79	77	81	101	85	
Messengers.....	84	70	64	55	50	87	88	79	81	66	94	89	100	90	78	85	(*)	(*)	96	82	74	61	67	80	68	
Receptionists.....	79	86	77	67	61	102	(*)	92	92	84	117	96	125	100	93	(*)	(*)	77	96	97	84	76	81	101	84	
Switchboard operators.....	82	97	83	75	65	110	105	99	89	85	115	107	128	107	100	(*)	(*)	(*)	95	98	93	82	85	101	89	
Switchboard operator- receptionists.....	96	71	75	69	54	(*)	103	95	100	83	124	98	118	(*)	(*)	100	102	73	108	96	85	83	91	99	100	
Order clerks I.....	82	96	75	75	53	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	98	100	80	(*)	99	76	(*)	88	97	95	
Order clerks II.....	(*)	(*)	(*)	89	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	131	(*)	136	125	100	122	127	92	(*)	109	121	89
Accounting clerks I.....	80	79	71	63	57	93	98	(*)	88	85	124	114	104	104	105	92	(*)	82	100	88	77	68	79	93	77	
Accounting clerks II.....	89	86	78	68	64	109	107	100	94	83	137	111	122	103	102	104	102	79	114	100	85	81	90	105	93	
Accounting clerks III.....	101	99	85	78	72	112	120	106	111	98	150	126	136	120	108	117	132	109	129	118	100	88	91	115	99	
Accounting clerks IV.....	113	106	99	89	81	126	130	117	128	104	143	130	164	132	121	120	(*)	(*)	147	124	114	100	106	125	112	
Payroll clerks.....	100	103	90	78	77	123	111	111	104	91	126	123	148	123	117	110	114	92	127	111	110	94	100	113	98	
Key entry operators I.....	87	85	77	68	64	110	108	93	97	82	130	99	125	99	99	101	103	83	107	95	87	80	88	100	82	
Key entry operators II.....	100	102	86	70	71	108	123	114	94	90	130	117	148	116	113	100	105	112	129	107	101	89	102	121	100	

NOTE: This matrix table shows the average (mean) relationship of earnings in establishments between any two occupations compared. Earnings for an occupation in the table are expressed as a percent of the earnings for an occupation in the column heading at the point where the data lines for the two intersect. For example, reading across the Secretaries II row, the 116 in the Secretaries I column indicates that Secretaries II average 116 percent of (or 16 percent

more than) the earnings of Secretaries I.

See appendix A for method of computation.

Also see footnotes at end of tables.

Table A-6. Pay relationships in establishments with paired professional and technical occupations, Los Angeles-Long Beach, CA, October 1985

Occupation for which earnings are compared	Occupation for which average earnings equal 100																
	Computer systems analysts (business)			Computer programmers (business)			Computer operators			Computer data librarians	Drafters			Electronics technicians			Registered industrial nurses
	I	II	III	I	II	III	I	II	III		II	III	IV	I	II	III	
Computer systems analysts (business) I	100	81	68	116	101	77	156	128	114	161	172	131	113	125	207	94	100
Computer systems analysts (business) II	123	100	84	151	127	108	183	148	141	177	200	157	134	153	229	111	123
Computer systems analysts (business) III	147	119	100	180	145	127	216	178	166	214	247	191	161	177	147	130	141
Computer programmers (business) I	88	68	53	100	79	69	122	103	88	121	150	121	98	104	(?)	83	88
Computer programmers (business) II	99	79	69	127	100	83	162	128	113	152	185	138	107	138	(?)	98	100
Computer programmers (business) III	130	92	79	144	120	100	177	155	131	180	199	160	120	148	127	99	120
Computer operators I	64	55	46	82	62	57	100	81	72	102	(?)	85	(?)	85	124	66	69
Computer operators II	79	69	57	97	78	64	124	100	85	120	145	114	88	105	89	78	84
Computer operators III	88	71	60	113	88	76	139	118	100	143	161	119	95	(?)	111	88	98
Computer data librarians	62	56	47	83	66	56	88	83	70	100	(?)	84	79	(?)	73	64	77
Drafters I	58	50	40	67	61	50	(?)	69	62	(?)	100	73	58	73	61	56	59
Drafters II	76	64	52	83	72	67	105	88	84	107	137	108	81	99	82	73	72
Drafters III	88	78	62	101	88	80	(?)	102	105	126	171	125	100	113	97	88	88
Drafters IV	90	85	57	96	72	68	118	96	(?)	(?)	137	107	89	100	84	72	77
Electronics technicians I	48	44	38	(?)	(?)	79	81	112	80	137	164	122	103	130	160	86	43
Electronics technicians II	108	90	77	121	102	101	151	128	114	188	178	139	113	139	117	100	105
Registered industrial nurses	100	81	71	116	100	88	146	120	102	129	170	139	112	129	232	86	100

See table A-6 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-10. Pay relationships in establishments with paired maintenance, toolroom, and powerplant occupations, Los Angeles-Long Beach, CA, October 1985

Occupation for which earnings are compared	Occupation for which average earnings equal 100									
	Carpenters	Electricians	Painters	Machinists	Maintenance mechanics (machinery)	Motor vehicle mechanics	Maintenance workers (general)	Trade helpers	Tool and die makers	Stationary engineers
Maintenance carpenters	100	90	105	90	90	90	124	132	95	97
Maintenance electricians	100	100	115	102	103	107	122	148	98	104
Maintenance painters	95	87	100	90	88	94	119	123	90	82
Maintenance machinists	112	98	111	100	100	107	(?)	130	99	(?)
(machinery)	102	97	108	97	100	101	124	140	92	89
Motor vehicle mechanics	102	94	108	85	88	100	148	132	98	78
Maintenance workers (general)	91	82	84	(?)	81	88	100	129	59	80
Maintenance trade helpers	78	67	62	72	67	78	77	100	81	59
Tool and die makers	105	104	111	101	108	104	180	184	100	103
Stationary engineers	103	98	109	(?)	101	131	124	171	97	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-11. Pay relationships in establishments with paired material movement and custodial occupations, Los Angeles-Long Beach, CA, October 1985

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Truckdrivers				Shippers	Receivers	Shippers and receivers	Warehousemen	Shipping packers	Material handling laborers	Forklift operators	Guards		Janitors, porters, and cleaners
	Light truck	Medium truck	Heavy truck	Tractor-trailer								I	II	
Truckdrivers, light truck	100	93	(?)	(?)	(?)	(?)	102	94	(?)	137	112	109	120	120
Truckdrivers, medium truck	107	100	118	97	107	100	102	131	139	105	103	155	111	127
Truckdrivers, heavy truck	(?)	86	100	89	(?)	(?)	(?)	(?)	(?)	108	104	(?)	(?)	133
Truckdrivers, tractor-trailer	(?)	103	112	100	118	114	(?)	124	143	108	115	161	(?)	147
Shippers	(?)	93	(?)	88	100	103	(?)	117	123	132	119	134	(?)	132
Receivers	(?)	100	(?)	88	97	100	(?)	112	111	110	100	118	(?)	130
Shippers and receivers	121	99	(?)	(?)	(?)	(?)	100	93	124	97	98	(?)	(?)	112
Warehousemen	107	78	(?)	80	88	89	108	100	132	108	94	113	89	118
Shipping packers	(?)	72	(?)	70	81	90	81	78	109	(?)	98	80	(?)	100
Material handling laborers	73	96	95	93	78	91	104	94	(?)	100	94	98	75	127
Forklift operators	80	87	98	87	84	100	102	106	104	107	100	128	(?)	126
Guards I	82	85	(?)	82	75	88	(?)	88	126	104	78	100	(?)	108
Guards II	83	90	(?)	(?)	(?)	(?)	(?)	113	(?)	134	(?)	(?)	100	123
Janitors, porters, and cleaners	84	79	75	68	78	77	80	87	100	79	79	92	81	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Average weekly hours* (standard)	Weekly earnings (in dollars)*			Number of workers receiving straight-time weekly earnings (in dollars) of --																																	
			Mean	Median	Middle range	140 and under 180	180 - 199	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299	300 - 319	320 - 339	340 - 359	360 - 379	380 - 399	400 - 419	420 - 439	440 - 459	460 - 479	480 - 499	500 - 519	520 - 539	540 - 559	560 - 579	580 - 599	600 - 619	620 - 639	640 - 659	660 - 679	680 - 699	700 - 719	720 - 739	740 - 759	760 and over			
Secretaries	14,394	39.5	435.00	417.00	389.00-490.00	-	-	-	3	7	40	244	480	779	2222	2918	3085	2100	1832	1582	607	331	108	35	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	8,257	40.0	488.00	481.00	379.00-475.00	-	-	-	3	1	-	43	89	217	970	1528	2888	1385	848	685	214	150	33	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	7,987	39.5	494.00	408.00	345.00-594.00	-	-	-	-	-	6	40	201	267	882	1252	1282	867	715	984	887	383	173	75	12	10	11	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	1,157	39.0	495.00	447.00	374.00-511.00	-	-	-	-	-	-	1	4	2	30	148	197	170	82	263	88	83	35	12	2	4	7	-	-	-	-	-	-	-	-	-	-	-	
Secretaries I	1,800	39.5	379.00	346.00	309.00-462.00	-	-	-	-	-	18	91	177	187	481	183	48	85	183	187	18	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	289	40.0	371.00	350.00	294.00-392.00	-	-	-	-	-	-	-	1	11	105	40	22	25	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nonmanufacturing	1,294	39.5	388.00	344.00	282.00-491.00	-	-	-	-	-	18	91	178	188	388	143	34	30	182	185	18	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Secretaries II	3,712	39.5	389.00	379.00	322.00-416.00	-	-	-	1	5	10	123	170	333	780	886	792	286	136	184	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	1,886	39.5	379.00	368.00	289.00-412.00	-	-	-	1	1	-	41	71	98	353	984	848	182	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nonmanufacturing	1,647	39.5	388.00	364.00	321.00-437.00	-	-	-	-	-	4	10	62	98	235	407	322	344	124	110	184	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	281	39.5	388.00	382.00	308.00-488.00	-	-	-	-	-	-	-	-	30	65	57	7	5	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Secretaries III	6,986	39.5	489.00	489.00	389.00-479.00	-	-	-	2	10	27	77	185	697	1388	1574	1140	886	388	188	38	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	3,948	40.0	485.00	484.00	382.00-487.00	-	-	-	2	-	-	1	3	44	300	723	1189	880	384	138	19	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	2,982	39.5	491.00	485.00	386.00-580.00	-	-	-	-	-	10	26	74	121	387	633	381	310	504	283	170	35	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	619	39.0	489.00	484.00	382.00-511.00	-	-	-	-	-	-	1	-	5	78	134	128	83	180	54	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Secretaries IV	2,188	40.0	487.00	507.00	489.00-548.00	-	-	-	-	-	-	-	-	4	51	148	271	380	481	534	340	87	18	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	1,216	40.0	507.00	514.00	473.00-542.00	-	-	-	-	-	-	-	-	13	25	64	288	324	380	107	41	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	989	39.5	484.00	482.00	413.00-548.00	-	-	-	-	-	-	-	-	4	38	124	387	102	137	154	133	48	15	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	183	40.0	541.00	587.00	518.00-577.00	-	-	-	-	-	-	-	-	1	5	11	7	18	31	71	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Secretaries V	1,086	39.5	544.00	546.00	477.00-688.00	-	-	-	-	-	-	-	-	-	38	118	197	82	280	136	198	82	29	6	11	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	586	39.5	547.00	588.00	586.00-611.00	-	-	-	-	-	-	-	-	-	20	88	2	31	188	88	114	30	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	529	40.0	548.00	585.00	485.00-680.00	-	-	-	-	-	-	-	-	-	18	38	125	51	82	48	82	52	6	6	11	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	89	39.5	575.00	571.00	457.00-639.00	-	-	-	-	-	-	-	-	-	-	14	17	10	4	8	22	11	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stenographers	482	40.0	373.00	347.00	286.00-481.00	-	-	-	-	-	2	31	30	48	31	88	37	34	84	29	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	183	39.5	378.00	380.00	286.00-481.00	-	-	-	-	-	15	-	38	5	29	2	15	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	174	39.5	354.00	323.00	283.00-481.00	-	-	-	-	-	2	28	10	31	12	28	7	4	25	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stenographers I	86	39.5	337.00	322.00	283.00-426.00	-	-	-	-	-	15	-	38	5	24	-	4	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities	86	39.5	337.00	322.00	283.00-426.00	-	-	-	-	-	15	-	38	5	24	-	4	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Typists	898	39.0	385.00	382.00	272.00-482.00	-	-	1	25	98	38	88	86	78	80	85	34	18	187	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	488	39.0	457.00	388.00	318.00-508.00	-	-	-	-	1	3	28	45	40	80	54	11	15	143	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	347	39.5	387.00	386.00	238.00-300.00	-	-	1	25	95	35	72	20	38	10	1	28	3	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Typists I	487	39.5	388.00	389.00	285.00-508.00	-	-	1	23	88	18	55	25	19	41	9	28	15	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	216	39.5	354.00	291.00	234.00-329.00	-	-	1	23	67	16	48	2	1	8	1	23	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Typists II	338	39.5	337.00	310.00	277.00-383.00	-	-	-	2	28	19	43	40	58	48	6	3	3	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Word processors	1,231	39.5	382.00	380.00	310.00-486.00	-	-	-	-	-	-	65	53	114	127	241	287	185	118	8	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	580	40.0	382.00	383.00	342.00-424.00	-	-	-	-	-	2	8	22	33	133	143	140	82	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	651	39.5	344.00	304.00	288.00-378.00	-	-	-	-	-	-	63	45	92	94	108	144	45	28	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Word processors I	637	39.5	317.00	308.00	284.00-348.00	-	-	-	-	-	-	64	52	107	100	112	82	27	2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing	147	40.0	340.00	337.00	308.00-388.00	-	-	-	-	-	-	1	7	19	21	52	33	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonmanufacturing	380	39.0	308.00	286.00	288.00-388.00	-	-	-	-	-	-	63	45	88	80	29	14	1	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Word processors II	694	40.0	388.00	387.00	389.00-434.00	-	-	-	-	-	1	1	7																										

Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985—Continued

Occupation and industry division	Number of workers	Average weekly lower (stand-ard)	Weekly earnings (in dollars)			Number of workers receiving straight-time weekly earnings (in dollars) of —																								
			Minor	Minor	Middle range	140 and under 180	180 - 190	190 - 200	200 - 220	220 - 240	240 - 260	260 - 280	280 - 300	300 - 320	320 - 340	340 - 360	360 - 380	380 - 400	400 - 440	440 - 480	480 - 520	520 - 560	560 - 600	600 - 640	640 - 680	680 - 720	720 - 760	760 and over		
Receptionists	421	28.5	280.00	294.00	285.00-303.00	3	-	-	-	36	23	114	89	27	22	48	12	22	37	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	248	28.5	285.00	294.00	285.00-315.00	-	-	-	-	20	4	70	82	14	19	18	5	13	-	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	163	40.0	340.00	307.00	285.00-400.00	3	-	-	-	18	19	44	7	13	3	30	7	17	24	-	-	-	-	-	-	-	-	-	-	-
Switchboard operators	940	28.5	272.00	285.00	285.00-312.00	-	19	9	68	375	115	53	42	55	73	54	31	36	3	7	-	-	-	-	-	-	-	-	-	-
Manufacturing	247	28.0	280.00	284.00	285.00-378.00	-	-	-	-	2	14	32	39	49	38	42	31	4	9	7	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	693	40.0	248.00	289.00	285.00-344.00	-	19	9	68	373	101	21	14	9	26	12	-	32	-	-	-	-	-	-	-	-	-	-	-	-
Switchboard operator-receptionists	287	28.5	276.00	287.00	280.00-294.00	-	-	3	24	40	105	72	84	32	34	11	-	12	-	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	313	28.5	273.00	282.00	244.00-291.00	-	-	3	24	28	88	42	62	11	31	3	-	12	-	-	-	-	-	-	-	-	-	-	-	-
Accounting clerks	5,657	40.0	267.00	340.00	287.00-418.00	-	-	18	98	323	244	588	890	488	1084	578	831	831	282	264	128	-	-	-	-	-	-	-	-	-
Manufacturing	1,718	28.5	267.00	280.00	312.00-394.00	-	-	1	41	28	137	111	145	338	202	91	60	31	6	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	3,949	40.0	267.00	280.00	278.00-440.00	-	-	18	95	292	216	429	439	323	988	240	328	440	219	233	120	-	-	-	-	-	-	-	-	-
Transportation and utilities	885	40.0	407.00	413.00	348.00-481.00	-	-	-	-	2	13	23	32	51	98	37	140	163	105	19	14	-	-	-	-	-	-	-	-	-
Accounting clerks I	567	40.0	272.00	280.00	282.00-288.00	-	-	8	30	142	84	99	94	34	20	10	14	4	18	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	589	40.0	280.00	288.00	285.00-288.00	-	-	8	30	142	82	94	74	10	12	10	14	4	18	-	-	-	-	-	-	-	-	-	-	-
Accounting clerks II	2,291	40.0	344.00	385.00	278.00-411.00	-	-	8	45	161	124	277	204	232	420	148	189	342	51	83	-	-	-	-	-	-	-	-	-	-
Manufacturing	582	28.5	317.00	318.00	284.00-348.00	-	-	-	41	24	70	85	72	197	58	18	13	1	5	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	1,649	40.0	354.00	394.00	278.00-440.00	-	-	8	45	120	100	207	119	120	223	92	148	389	50	78	-	-	-	-	-	-	-	-	-	-
Transportation and utilities	245	40.0	389.00	411.00	388.00-440.00	-	-	-	-	2	6	5	24	37	31	20	114	108	-	-	-	-	-	-	-	-	-	-	-	-
Accounting clerks III	2,138	40.0	385.00	345.00	307.00-412.00	-	-	-	21	20	28	180	242	288	327	253	229	129	128	140	12	-	-	-	-	-	-	-	-	-
Manufacturing	721	28.5	382.00	385.00	388.00-390.00	-	-	-	1	-	-	62	4	85	267	182	91	31	24	4	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	1,414	40.0	385.00	382.00	285.00-408.00	-	-	-	20	20	28	128	238	173	280	71	137	88	104	138	12	-	-	-	-	-	-	-	-	-
Transportation and utilities	217	40.0	411.00	428.00	348.00-408.00	-	-	-	-	5	4	6	13	88	5	21	48	58	-	-	-	-	-	-	-	-	-	-	-	-
Accounting clerks IV	794	28.5	428.00	418.00	375.00-501.00	-	-	-	-	-	-	-	9	12	122	185	152	95	85	41	114	-	-	-	-	-	-	-	-	-
Manufacturing	584	28.0	421.00	427.00	380.00-495.00	-	-	-	-	-	-	-	-	2	51	98	82	47	26	22	6	-	-	-	-	-	-	-	-	-
Nonmanufacturing	280	28.5	426.00	428.00	385.00-501.00	-	-	-	-	-	-	-	8	10	71	67	30	18	48	19	108	-	-	-	-	-	-	-	-	-
Transportation and utilities	106	28.5	421.00	501.00	490.00-500.00	-	-	-	-	-	-	-	-	1	2	12	4	7	47	19	14	-	-	-	-	-	-	-	-	-
Payroll clerks	685	28.5	287.00	340.00	301.00-408.00	-	9	3	3	9	43	51	27	137	86	86	77	38	21	62	34	-	-	-	-	-	-	-	-	-
Manufacturing	152	28.5	291.00	285.00	214.00-385.00	-	-	-	-	-	-	-	-	65	30	29	10	7	9	5	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	513	28.5	288.00	287.00	285.00-408.00	-	9	3	3	9	43	51	27	72	60	42	67	31	12	57	24	-	-	-	-	-	-	-	-	-
Transportation and utilities	60	28.0	417.00	427.00	391.00-440.00	-	-	-	-	-	-	-	-	1	1	6	15	24	4	7	5	-	-	-	-	-	-	-	-	-
Key entry operators	2,420	28.5	341.00	285.00	287.00-380.00	-	12	8	38	140	147	172	348	348	605	305	102	289	85	14	3	-	-	-	-	-	-	-	-	-
Manufacturing	918	28.0	286.00	285.00	285.00-388.00	-	-	-	22	82	57	62	104	275	188	80	24	191	85	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	1,502	40.0	342.00	282.00	285.00-412.00	-	12	8	38	118	85	115	184	144	322	116	22	282	70	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities	349	40.0	390.00	428.00	318.00-464.00	-	-	-	-	5	1	18	37	39	37	24	14	174	-	-	-	-	-	-	-	-	-	-	-	-
Key entry operators I	1,478	28.5	327.00	312.00	271.00-380.00	-	9	3	30	126	119	128	204	188	300	80	24	191	85	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	447	28.0	301.00	288.00	288.00-390.00	-	-	-	22	82	58	58	88	117	34	5	-	9	-	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	1,029	40.0	326.00	318.00	280.00-412.00	-	9	3	30	106	27	82	148	113	188	88	19	191	88	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities	289	40.0	373.00	391.00	390.00-481.00	-	-	-	-	5	1	18	37	38	15	9	11	86	-	-	-	-	-	-	-	-	-	-	-	-
Key entry operators II	944	28.5	382.00	287.00	325.00-394.00	-	3	3	8	12	28	34	42	79	302	212	78	108	20	14	3	-	-	-	-	-	-	-	-	-
Manufacturing	471	28.5	373.00	391.00	299.00-387.00	-	-	-	-	-	-	1	6	48	188	155	75	7	6	14	3	-	-	-	-	-	-	-	-	-
Nonmanufacturing	473	28.5	382.00	340.00	289.00-398.00	-	3	3	8	12	28	30	36	31	148	57	3	101	14	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of tables.

Table A-13. Weekly earnings of professional and technical workers in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Average weekly hours (stand-ard)	Weekly earnings (in dollars) ^a			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean ^b	Median ^b	Middle range ^b	Under 240	340 and under 260	280 - 290	290 - 300	300 - 320	320 - 340	340 - 360	360 - 380	380 - 420	420 - 460	460 - 500	500 - 540	540 - 580	580 - 620	620 - 660	660 - 700	700 - 740	740 - 820	820 - 900	900 - 980	980 - 1080	
Computer systems analysts (business)	2,788	39.5	668.50	661.00	565.50- 744.50	-	-	-	-	-	-	-	4	29	82	162	254	260	295	283	381	322	452	188	85	11	-
Manufacturing	1,474	40.0	641.50	637.00	532.00- 731.00	-	-	-	-	-	-	-	4	22	58	94	225	130	151	143	155	145	191	117	36	3	-
Nonmanufacturing	1,324	39.5	677.50	678.00	584.50- 751.00	-	-	-	-	-	-	-	-	7	34	68	29	130	144	140	208	177	261	71	48	8	-
Computer systems analysts (business) I	682	40.0	632.00	625.00	490.00- 681.00	-	-	-	-	-	-	-	4	28	68	101	186	105	80	41	41	7	3	-	-	-	-
Manufacturing	485	40.0	623.00	615.00	490.00- 655.00	-	-	-	-	-	-	-	4	22	55	91	161	70	51	13	21	6	1	-	-	-	-
Computer systems analysts (business) II	1,231	39.5	658.50	654.00	582.50- 721.50	-	-	-	-	-	-	-	-	1	6	31	83	144	197	182	181	183	168	55	12	-	-
Manufacturing	513	40.0	645.50	642.00	590.00- 702.00	-	-	-	-	-	-	-	-	-	3	3	64	95	97	105	74	68	51	20	2	-	-
Nonmanufacturing	688	39.5	688.50	684.50	582.50- 731.50	-	-	-	-	-	-	-	-	1	3	28	19	89	100	87	107	94	115	36	10	-	-
Computer systems analysts (business) III	675	39.5	761.00	751.00	686.00- 819.00	-	-	-	-	-	-	-	-	-	-	-	-	5	11	18	50	136	152	283	133	73	11
Manufacturing	438	40.0	772.50	767.50	715.00- 831.00	-	-	-	-	-	-	-	-	-	-	-	-	5	3	25	60	70	139	97	34	3	-
Nonmanufacturing	438	39.5	748.50	740.50	682.50- 796.50	-	-	-	-	-	-	-	-	-	-	-	-	5	6	15	25	79	82	144	36	36	8
Transportation and utilities	108	39.5	834.00	870.00	891.00- 927.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	25	5	3	20	38	8
Computer programmers (business)	1,998	39.5	536.50	534.50	485.00- 615.50	-	-	-	-	18	12	62	18	132	227	278	275	285	237	172	120	68	64	18	1	-	-
Manufacturing	575	39.5	528.50	523.00	454.00- 598.50	-	-	-	-	-	-	-	2	36	68	109	89	100	67	44	27	9	9	-	-	-	-
Nonmanufacturing	1,423	39.5	544.00	540.50	488.50- 616.00	-	-	-	-	18	12	62	16	93	129	170	208	195	170	128	93	57	55	18	1	-	-
Transportation and utilities	248	40.0	613.00	584.50	531.00- 681.00	-	-	-	-	-	-	-	-	-	-	-	27	43	38	31	34	16	23	21	13	1	-
Computer programmers (business) I	454	39.5	440.50	440.00	381.50- 485.00	-	-	-	-	18	12	62	12	84	82	108	27	9	9	27	2	1	-	-	-	-	-
Manufacturing	180	39.5	448.50	454.00	421.00- 486.00	-	-	-	-	-	-	-	2	36	84	55	18	4	1	-	-	-	-	-	-	-	-
Nonmanufacturing	274	39.5	434.00	387.00	345.00- 483.00	-	-	-	-	18	12	62	10	48	18	54	11	5	8	27	2	1	-	-	-	-	-
Computer programmers (business) II	688	39.5	536.50	535.00	486.50- 577.00	-	-	-	-	-	-	-	6	22	69	129	135	186	85	34	27	21	4	-	-	-	-
Manufacturing	247	39.5	531.00	540.00	490.50- 571.00	-	-	-	-	-	-	-	-	1	34	54	34	72	40	8	4	-	-	-	-	-	-
Nonmanufacturing	451	40.0	539.50	534.00	485.50- 586.00	-	-	-	-	-	-	-	6	21	35	75	101	94	45	26	23	21	4	-	-	-	-
Computer programmers (business) III	786	39.5	613.00	605.50	544.00- 673.00	-	-	-	-	-	-	-	-	-	24	41	113	120	143	111	91	44	80	18	1	-	-
Nonmanufacturing	620	39.5	611.50	605.50	531.00- 673.00	-	-	-	-	-	-	-	-	-	-	24	41	94	96	117	75	68	35	51	18	1	-
Computer operators	1,999	39.5	428.50	420.00	369.50- 475.00	10	31	19	58	77	108	102	167	401	319	323	181	124	59	12	2	4	1	-	-	-	-
Manufacturing	1,091	39.5	418.50	413.00	367.00- 457.00	-	21	-	29	36	64	60	120	281	212	93	88	48	19	12	2	4	1	-	-	-	-
Nonmanufacturing	908	39.5	434.50	453.50	373.00- 488.50	10	10	19	29	38	45	42	67	120	107	230	75	76	40	-	-	-	-	-	-	-	-
Transportation and utilities	228	40.0	463.50	465.00	465.00- 483.00	-	4	-	2	2	4	1	1	28	13	121	27	17	6	-	-	-	-	-	-	-	-
Computer operators I	524	39.5	375.00	376.00	320.00- 438.50	10	28	11	22	53	52	51	40	109	27	113	8	-	-	-	-	-	-	-	-	-	-
Manufacturing	308	40.0	358.00	359.00	321.00- 384.00	-	21	-	9	38	41	49	31	92	19	8	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	215	39.5	386.50	465.00	310.00- 485.00	10	7	11	13	14	11	2	9	17	8	105	8	-	-	-	-	-	-	-	-	-	-
Computer operators II	1,030	40.0	437.00	429.50	361.50- 480.00	-	3	8	35	20	25	44	120	214	197	136	112	78	37	1	-	-	-	-	-	-	-
Manufacturing	558	40.0	429.50	423.00	368.00- 486.00	-	-	-	20	-	3	11	86	144	143	73	54	18	5	1	-	-	-	-	-	-	-
Nonmanufacturing	472	40.0	445.50	452.00	372.50- 506.00	-	3	8	15	20	22	33	34	70	54	63	56	60	32	-	-	-	-	-	-	-	-
Transportation and utilities	61	40.0	458.00	456.50	406.50- 503.50	-	-	-	-	-	-	1	-	21	9	13	11	6	-	-	-	-	-	-	-	-	-
Computer operators III	433	39.0	461.00	448.00	405.00- 524.50	-	-	-	1	4	32	7	27	78	95	71	33	45	22	11	2	4	1	-	-	-	-
Manufacturing	224	39.5	479.50	448.00	415.50- 555.50	-	-	-	-	-	20	-	3	45	50	12	32	30	14	11	2	4	1	-	-	-	-
Nonmanufacturing	209	39.0	441.50	453.50	393.50- 484.00	-	-	-	1	4	12	7	24	33	45	56	1	15	8	-	-	-	-	-	-	-	-
Computer data librarians	154	39.0	365.00	330.50	267.50- 454.00	12	6	18	12	11	27	9	2	8	18	12	12	6	1	-	-	-	-	-	-	-	-
Nonmanufacturing	128	39.0	357.50	329.50	278.00- 454.00	12	6	18	12	7	22	5	-	2	18	12	6	6	-	-	-	-	-	-	-	-	-

See footnotes at end of tables.

Table A-13. Weekly earnings of professional and technical workers in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985 —Continued

Occupation and industry division	Number of workers	Average weekly hours (standard)	Weekly earnings (in dollars) ^a			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean ^b	Median ^b	Middle range ^b	Under 240	240 and under 280	280 - 290	290 - 300	300 - 320	320 - 340	340 - 360	360 - 380	380 - 420	420 - 460	460 - 500	500 - 540	540 - 580	580 - 620	620 - 680	680 - 700	700 - 740	740 - 820	820 - 900	900 - 980	980 - 1080	
Doctors	700	40.0	419.00	409.00	347.00- 482.50	4	10	28	23	44	37	86	64	98	93	86	78	31	17	17	8	-	-	-	-	-	-
Manufacturing	674	40.0	414.00	404.00	347.00- 486.00	4	10	28	23	44	37	83	64	97	87	85	75	27	14	14	2	-	-	-	-	-	-
Doctors II	121	40.0	392.50	390.00	271.00- 323.00	4	9	28	17	29	15	7	2	8	2	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	119	40.0	390.50	390.00	271.00- 321.00	4	9	28	17	29	15	7	2	7	1	-	-	-	-	-	-	-	-	-	-	-	-
Doctors III	241	40.0	390.00	389.00	347.00- 408.00	-	-	-	-	6	14	20	52	55	46	28	14	2	4	-	-	-	-	-	-	-	-
Manufacturing	229	40.0	378.00	389.00	347.00- 402.50	-	-	-	-	6	14	20	50	55	49	23	14	1	-	-	-	-	-	-	-	-	-
Doctors IV	272	40.0	474.00	475.99	438.00- 508.00	-	-	-	-	-	-	4	9	44	82	70	83	11	3	3	6	-	-	-	-	-	-
Manufacturing	280	40.0	486.00	471.50	435.00- 501.00	-	-	-	-	-	-	4	9	44	82	70	83	11	-	-	-	-	-	-	-	-	-
Electronics technicians	8,008	40.0	595.00	596.99	484.00- 635.00	-	4	8	5	18	42	177	146	459	548	483	511	304	438	2587	203	56	17	-	-	-	-
Manufacturing	3,259	40.0	486.50	474.50	415.00- 549.00	-	4	8	5	18	42	178	145	458	545	483	504	247	333	187	91	1	17	-	-	-	-
Nonmanufacturing: Transportation and utilities	2,741	40.0	637.50	605.00	608.00- 641.00	-	-	-	-	-	-	-	-	-	-	-	7	54	103	2410	112	55	-	-	-	-	-
Electronics technicians II	3,579	40.0	563.00	566.00	548.00- 641.00	-	-	-	1	2	7	59	52	204	280	152	119	134	107	2474	7	1	-	-	-	-	-
Manufacturing	1,071	40.0	489.50	448.50	407.00- 526.50	-	-	-	1	2	7	58	51	204	280	152	119	81	67	88	2	1	-	-	-	-	-
Electronics technicians III	1,588	40.0	566.00	547.00	486.00- 614.00	-	-	-	-	-	-	-	4	33	189	289	334	143	329	121	188	55	17	-	-	-	-
Manufacturing	1,480	40.0	537.50	530.50	477.00- 582.50	-	-	-	-	-	-	-	4	33	188	288	325	139	298	121	89	-	17	-	-	-	-
Registered industrial nurses	142	40.0	542.00	540.50	525.00- 583.00	-	-	-	-	-	-	-	-	1	1	20	48	48	15	9	-	-	-	-	-	-	-
Manufacturing	117	40.0	540.50	541.00	525.00- 558.50	-	-	-	-	-	-	-	-	1	1	15	40	44	9	7	-	-	-	-	-	-	-

See footnote at end of table.

Table A-14. Average weekly earnings of office, professional, and technical workers, by sex in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985

Sex, occupation, and industry division	Number of workers	Average (mean) ^a		Sex, occupation, and industry division	Number of workers	Average (mean) ^a		Sex, occupation, and industry division	Number of workers	Average (mean) ^a	
		Weekly hours ^b (standard)	Weekly earnings (in dollars) ^c			Weekly hours ^b (standard)	Weekly earnings (in dollars) ^c			Weekly hours ^b (standard)	Weekly earnings (in dollars) ^c
Office occupations - men				Word processors II	646	40.0	395.50	Computer systems analysts (business) I	339	39.5	532.50
Messengers	527	38.5	255.50	Manufacturing	415	40.0	397.00	Manufacturing	250	39.5	521.00
Nonmanufacturing	270	39.0	290.50	Nonmanufacturing	230	39.5	382.00	Computer systems analysts (business) II	718	40.0	686.00
Accounting clerks:				File clerks	559	39.0	281.50	Manufacturing	317	40.0	650.00
Manufacturing	233	39.5	350.50	Nonmanufacturing	459	38.5	272.50	Nonmanufacturing	401	39.5	682.50
Accounting clerks II:				Receptionists	421	39.5	319.00	Computer systems analysts (business) III	589	39.5	769.00
Manufacturing	88	39.0	319.00	Manufacturing	247	39.5	305.50	Manufacturing	279	40.0	782.50
Accounting clerks III	328	40.0	373.00	Nonmanufacturing	174	40.0	339.50	Nonmanufacturing	320	39.5	757.50
Manufacturing	107	39.5	348.50	Switchboard operators	860	39.5	274.50	Transportation and utilities	79	40.0	640.00
Nonmanufacturing	221	40.0	385.00	Manufacturing	248	39.0	339.50	Computer programmers (business)	1,211	39.5	540.50
Office occupations - women				Nonmanufacturing	614	40.0	248.50	Manufacturing	311	39.5	532.00
Secretaries	14,489	38.5	434.50	Switchboard operator-receptionists	379	38.5	276.00	Nonmanufacturing	900	39.5	543.50
Manufacturing	8,341	40.0	431.00	Nonmanufacturing	295	38.5	272.50	Computer programmers (business) I	248	39.5	435.00
Nonmanufacturing	1,009	39.0	454.50	Accounting clerks	4,297	40.0	355.50	Computer programmers (business) II	386	40.0	542.00
Transportation and utilities	1,529	39.5	381.50	Manufacturing	1,485	39.5	358.50	Manufacturing	124	39.5	542.00
Secretaries I	208	40.0	371.00	Nonmanufacturing	510	40.0	272.50	Nonmanufacturing	262	40.0	542.00
Manufacturing	1,323	39.5	383.00	Accounting clerks I	485	40.0	269.00	Computer programmers (business) III	499	39.5	610.00
Nonmanufacturing	3,248	39.5	392.00	Manufacturing	514	40.0	317.50	Nonmanufacturing	411	39.5	609.00
Secretaries II	1,844	39.5	380.50	Accounting clerks II:	1,798	40.0	364.00	Computer operators:			
Manufacturing	1,844	39.5	380.50	Manufacturing	614	40.0	364.00	Manufacturing	712	39.5	423.50
Nonmanufacturing	213	39.5	397.50	Nonmanufacturing	1,184	40.0	363.50	Computer operators I:			
Transportation and utilities	5,948	39.5	433.00	Transportation and utilities	184	40.0	412.50	Manufacturing	188	39.5	349.00
Secretaries III	3,548	40.0	425.00	Accounting clerks IV	543	39.5	439.50	Computer operators II:			
Manufacturing	3,548	40.0	425.00	Manufacturing	305	39.0	422.50	Manufacturing	356	39.5	430.00
Nonmanufacturing	536	39.0	435.50	Nonmanufacturing	86	39.5	491.00	Computer operators III			
Transportation and utilities	1,944	40.0	507.00	Payroll clerks	577	39.5	368.00	Manufacturing	336	39.0	481.50
Secretaries IV	1,214	40.0	507.00	Manufacturing	147	39.5	357.00	Manufacturing	188	39.0	477.00
Manufacturing	130	40.0	551.50	Nonmanufacturing	430	39.5	358.00	Nonmanufacturing	148	39.5	441.50
Nonmanufacturing	1,038	39.5	547.00	Key entry operators:				Computer data librarians	90	39.0	348.00
Transportation and utilities	566	39.5	547.50	Manufacturing	889	39.0	340.50	Drafters	539	40.0	418.50
Typists	482	40.0	548.50	Key entry operators I:	422	39.0	304.00	Manufacturing	518	40.0	419.50
Manufacturing	95	39.5	581.50	Manufacturing	194	40.0	371.00	Drafters II	99	40.0	308.50
Nonmanufacturing	709	39.0	389.00	Nonmanufacturing	467	39.5	373.50	Manufacturing	97	40.0	304.00
Transportation and utilities	458	39.0	451.50	Key entry operators II:				Drafters III	181	40.0	378.50
Typists I	434	39.5	377.50	Manufacturing				Manufacturing	172	40.0	378.50
Word processors	1,159	39.5	381.00	Professional and technical occupations - men				Drafters IV	206	40.0	474.50
Manufacturing	556	40.0	382.50	Computer systems analysts (business)	1,658	39.5	677.00	Manufacturing	196	40.0	485.50
Nonmanufacturing	603	39.5	341.00	Manufacturing	848	40.0	655.50	Electronics technicians:			
Word processors I	513	39.5	317.50	Nonmanufacturing	810	39.5	689.00	Manufacturing	2,851	40.0	489.00
Manufacturing	140	40.0	339.00					Electronics technicians II:			
Nonmanufacturing	373	39.0	309.50					Manufacturing	887	40.0	472.50

See footnotes at end of tables.

Table A-14. Average weekly earnings of office, professional, and technical workers, by sex in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985 —Continued

Sex,* occupation, and industry division	Number of workers	Average (mean) ²		Sex,* occupation, and industry division	Number of workers	Average (mean) ²		Sex,* occupation, and industry division	Number of workers	Average (mean) ²	
		Weekly hours ¹ (standard)	Weekly earnings (in dollars) ²			Weekly hours ¹ (standard)	Weekly earnings (in dollars) ²			Weekly hours ¹ (standard)	Weekly earnings (in dollars) ²
Electronics technicians III.....	1,535	40.0	553.00	Computer programmers (business).....	769	39.5	536.50	Drafters III.....	60	40.0	390.50
Manufacturing.....	1,360	40.0	536.50	Manufacturing.....	262	39.5	524.00	Manufacturing.....	57	40.0	384.00
Professional and technical occupations - women				Nonmanufacturing.....	507	39.5	546.00				
Computer systems analysts (business).....	1,114	40.0	635.00	Computer programmers (business) I.....	202	39.5	446.00	Drafters IV.....	66	40.0	473.00
Manufacturing.....	626	40.0	623.00	Computer programmers (business) II.....	310	39.5	530.00	Manufacturing.....	64	40.0	467.50
Nonmanufacturing.....	486	40.0	651.00	Manufacturing.....	123	39.5	520.00				
Transportation and utilities.....	174	40.0	711.00	Nonmanufacturing.....	187	39.5	537.00	Electronics technicians: Manufacturing.....	408	40.0	461.50
Computer systems analysts (business) I.....	317	40.0	533.00	Computer programmers (business) III.....	257	39.5	620.00				
Manufacturing.....	245	40.0	524.50	Nonmanufacturing.....	199	39.5	617.00	Electronics technicians II: Manufacturing.....	184	40.0	449.00
Computer systems analysts (business) II.....	501	39.5	648.50	Computer operators: Manufacturing.....	379	40.0	412.50				
Manufacturing.....	226	39.5	639.00	Computer operators II: Manufacturing.....	202	40.0	429.00	Electronics technicians III: Manufacturing.....	90	40.0	553.50
Nonmanufacturing.....	275	40.0	656.50	Computer data librarians.....	62	40.0	392.00				
Transportation and utilities.....	100	40.0	731.50	Drafters.....	161	40.0	421.50	Registered industrial nurses.....	141	40.0	541.00
Computer systems analysts (business) III.....	266	39.5	749.50	Manufacturing.....	156	40.0	416.50	Manufacturing.....	116	40.0	539.50
Manufacturing.....	157	39.5	754.00								
Nonmanufacturing.....	109	39.5	743.50								

See footnotes at end of tables.

Table A-15. Hourly earnings of maintenance, toolroom, and powerplant workers in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Hourly earnings (in dollars) ^a			Number of workers receiving straight-time hourly earnings (in dollars) of —																									
		Mean ^b	Median ^b	Middle range ^b	Under 6.00	6.00 and under 6.50	6.50 — 7.00	7.00 — 7.50	7.50 — 8.00	8.00 — 8.50	8.50 — 9.00	9.00 — 9.50	9.50 — 10.00	10.00 — 10.50	10.50 — 11.00	11.00 — 11.50	11.50 — 12.00	12.00 — 12.50	12.50 — 13.00	13.00 — 13.50	13.50 — 14.00	14.00 — 14.50	14.50 — 15.00	15.00 — 16.00	16.00 — 17.00	17.00 — 18.00	18.00 and over			
Maintenance carpenters	380	13.88	14.38	11.85-15.47	-	-	-	-	-	-	-	8	8	-	-	60	25	15	5	8	11	59	51	118	15	7	-	-		
Manufacturing	298	13.35	14.05	11.20-14.94	-	-	-	-	-	-	-	8	8	-	-	60	23	14	3	8	8	59	43	58	4	-	-	-		
Maintenance electricians	808	15.38	15.80	14.88-18.33	-	-	-	-	-	-	-	-	-	-	4	31	32	5	27	9	40	49	9	392	156	18	38	-		
Manufacturing	800	15.18	15.58	14.38-15.97	-	-	-	-	-	-	-	-	-	-	4	31	32	5	22	8	40	47	7	361	74	-	38	-		
Maintenance painters	332	13.51	13.77	12.17-14.83	-	-	-	-	-	-	-	10	1	7	44	4	15	4	5	37	46	72	24	35	28	-	-	-		
Manufacturing	261	13.10	13.62	11.38-14.32	-	-	-	-	-	-	-	10	1	7	44	4	15	4	5	36	48	60	-	4	25	-	-	-		
Maintenance machinists	421	16.88	17.37	15.58-17.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	2	8	103	3	250	* 50	-		
Maintenance mechanics (machinery)	1,300	14.30	15.05	13.57-15.05	-	-	-	-	-	-	-	-	-	4	4	1	34	63	170	38	43	182	41	720	-	-	-	-		
Manufacturing	1,191	14.19	15.02	13.00-15.05	-	-	-	-	-	-	-	-	-	4	4	1	34	63	170	38	43	182	41	611	-	-	-	-		
Motor vehicle mechanics	878	14.72	15.04	13.80-15.84	-	-	-	-	-	-	2	3	21	4	5	41	5	7	59	3	70	42	153	313	68	82	-	-		
Manufacturing	188	14.23	13.80	12.75-15.84	-	-	-	-	-	-	-	-	1	-	-	1	-	-	40	3	39	14	9	43	1	17	-	-		
Nonmanufacturing	700	14.83	15.21	14.81-15.84	-	-	-	-	-	-	2	3	20	4	5	40	4	7	19	-	31	28	144	270	67	85	-	-		
Transportation and utilities	481	15.14	15.25	15.12-16.84	-	-	-	-	-	-	-	3	20	4	5	14	3	7	18	-	8	2	26	221	66	84	-	-		
Maintenance workers (general)	440	10.27	10.22	8.77-12.38	20	20	1	20	-	11	60	40	44	7	45	15	38	33	12	73	-	3	-	-	-	-	-	-		
Nonmanufacturing	247	10.03	9.98	8.80-12.38	20	20	-	20	-	3	31	9	24	6	8	15	9	31	3	47	-	3	-	-	-	-	-	-		
Maintenance trades helpers	320	8.83	8.25	7.00-11.29	4	31	30	37	34	45	-	8	12	14	16	34	25	19	11	-	-	-	-	-	-	-	-	-		
Manufacturing	240	8.38	7.75	6.75- 9.87	4	31	30	34	33	36	-	4	12	7	10	4	24	1	11	-	-	-	-	-	-	-	-	-		
Tool and die makers	480	15.07	15.43	14.58-15.67	-	-	-	-	-	-	-	-	-	-	-	1	4	3	2	50	6	27	83	283	30	-	-	-		
Manufacturing	480	15.07	15.43	14.58-15.67	-	-	-	-	-	-	-	-	-	-	-	1	4	3	2	50	6	27	83	283	30	-	-	-		
Stationary engineers	830	16.07	16.80	15.25-18.80	-	-	-	-	-	-	-	1	-	1	-	1	2	3	48	7	8	47	30	155	405	124	-	-		
Manufacturing	337	15.71	16.32	14.40-17.85	-	-	-	-	-	-	-	-	-	1	-	1	2	1	43	4	7	40	28	40	46	124	-	-		

^a All workers were at \$18.00 to \$19.00.
Also see footnotes at end of tables.

Table A-18. Hourly earnings of material movement and custodial workers in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985

Occupation and industry division	Number of workers	Hourly earnings (in dollars) ^a			Number of workers receiving straight-time hourly earnings (in dollars) of —																							
		Mean ^b	Median ^b	Middle range ^b	3.00 and under 3.50	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	13.00	14.00	15.00	16.00	17.00
						4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	13.00	14.00	15.00	16.00	17.00	
Truckdrivers.....	5,181	13.70	14.13	13.50-15.28	-	-	-	-	26	1	-	5	3	1	29	51	86	9	38	345	84	384	150	427	2020	1399	125	-
Manufacturing.....	1,516	13.33	13.74	12.01-14.11	-	-	-	-	20	1	-	-	3	1	8	4	4	7	7	8	12	291	75	415	530	5	125	-
Nonmanufacturing.....	3,645	13.85	14.13	14.13-15.28	-	-	-	-	6	-	-	5	-	-	21	47	82	2	29	337	52	99	75	12	1490	1394	-	-
Truckdrivers, light truck.....	99	10.37	11.24	8.24-12.10	-	-	-	-	20	1	-	-	-	1	5	6	2	2	1	2	11	9	18	3	18	-	-	-
Truckdrivers, tractor-trailer.....	3,308	13.24	14.13	11.86-14.13	-	-	-	-	-	-	-	-	3	-	24	45	82	8	23	339	14	370	94	287	1884	227	-	-
Manufacturing.....	1,089	13.15	13.50	11.86-14.09	-	-	-	-	-	-	-	-	-	-	3	3	-	8	3	7	10	285	48	277	426	-	-	-
Nonmanufacturing.....	2,329	13.28	14.13	11.50-14.13	-	-	-	-	-	-	-	-	-	-	21	42	82	-	20	332	4	85	48	10	1458	227	-	-
Receivers.....	707	9.82	8.80	7.41-11.45	-	-	-	3	75	-	15	21	13	35	23	251	4	15	13	19	53	9	55	61	2	34	8	-
Warehousemen.....	3,390	9.31	8.40	6.96-12.52	-	-	-	240	386	129	45	146	45	125	744	31	34	65	17	14	247	114	422	551	35	-	-	-
Manufacturing.....	713	11.02	11.31	9.78-12.78	-	-	-	-	-	7	5	13	44	19	19	22	32	43	15	12	170	46	142	124	-	-	-	-
Nonmanufacturing.....	2,677	8.85	8.40	5.56-12.52	-	-	-	240	386	122	40	133	1	106	725	9	2	22	2	2	77	68	280	427	35	-	-	-
Transportation and utilities.....	577	13.02	13.03	12.52-13.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	8	288	259	35	-	-	-
Material handling laborers.....	1,044	10.78	12.44	8.64-13.85	-	36	36	33	64	23	12	8	18	20	1	34	62	49	64	13	1	11	87	473	1	-	-	-
Forklift operators.....	2,297	10.85	9.78	9.45-13.29	-	-	-	-	-	-	30	1	2	55	2	104	495	603	42	254	26	1	87	557	36	-	-	-
Manufacturing.....	1,369	9.90	9.78	9.45- 9.78	-	-	-	-	-	-	30	1	1	54	2	-	495	603	12	2	25	1	47	80	36	-	-	-
Guards.....	8,263	8.84	5.55	4.50- 8.00	114	290	1450	791	1252	646	557	559	343	194	117	88	123	119	147	135	84	196	400	857	1	-	-	-
Manufacturing.....	1,777	11.67	12.17	10.44-13.30	-	-	-	-	30	14	4	4	18	39	48	73	38	65	122	104	71	147	355	843	1	-	-	-
Nonmanufacturing.....	6,486	5.52	5.15	4.35- 6.29	114	290	1450	791	1222	632	553	555	325	155	69	15	84	54	25	31	13	49	45	14	-	-	-	-
Guards I.....	6,780	5.81	5.20	4.45- 6.50	114	290	1450	791	1222	640	553	550	320	182	100	68	42	76	23	20	4	46	47	251	1	-	-	-
Manufacturing.....	534	11.20	12.13	8.80-13.30	-	-	-	-	-	8	2	-	3	37	38	62	21	40	13	20	4	1	47	237	1	-	-	-
Nonmanufacturing.....	6,256	5.35	5.00	4.25- 6.14	114	290	1450	791	1222	632	551	550	317	145	62	6	21	36	10	-	-	45	-	14	-	-	-	-
Guards II.....	1,443	11.70	12.01	10.60-13.27	-	-	-	-	-	6	4	8	23	12	17	20	61	43	124	115	80	150	353	406	-	-	-	-
Janitors, porters, and cleaners.....	9,432	6.55	5.75	4.00- 7.80	1	438	2456	523	830	577	552	124	600	1151	456	241	243	78	31	74	108	480	380	57	32	-	-	-
Manufacturing.....	2,077	9.83	9.09	8.09-11.85	1	-	63	37	27	53	32	42	18	57	389	172	233	67	18	62	43	385	348	20	-	-	-	-
Nonmanufacturing.....	7,355	5.67	5.29	4.00- 7.32	-	438	2393	486	803	524	520	82	582	1094	67	69	10	11	13	12	65	85	32	37	32	-	-	-
Transportation and utilities.....	285	11.83	11.50	11.02-12.47	-	-	-	-	-	-	-	-	-	5	-	35	-	3	1	2	63	85	30	29	32	-	-	-

See footnotes at end of tables.

Table A-17. Average hourly earnings of maintenance, toolroom, powerplant, material movement and custodial workers by sex in establishments employing 500 workers or more in Los Angeles-Long Beach, CA, October 1985

Sex,* occupation, and industry division	Number of workers	Average (mean) hourly earnings (in dollars) [†]	Sex,* occupation, and industry division	Number of workers	Average (mean) hourly earnings (in dollars) [†]	Sex,* occupation, and industry division	Number of workers	Average (mean) hourly earnings (in dollars) [†]
Maintenance, toolroom, and powerplant occupations - men			Tool and die makers.....	488	15.06	Forklift operators.....	2,222	10.86
Maintenance carpenters.....	390	13.86	Manufacturing.....	488	15.06	Manufacturing.....	1,336	9.93
Manufacturing.....	298	13.35	Stationary engineers:			Guards.....	6,437	7.13
Maintenance electricians.....	807	15.38	Manufacturing.....	334	15.72	Manufacturing.....	1,559	11.68
Manufacturing.....	658	15.16	Material movement and custodial occupations - men			Guards I:		
Maintenance painters.....	332	13.51	Truckdrivers.....	4,949	13.66	Manufacturing.....	475	11.20
Manufacturing.....	261	13.10	Manufacturing.....	1,503	13.33	Guards II.....	1,232	11.85
Maintenance machinists.....	420	16.88	Nonmanufacturing.....	3,446	13.80	Janitors, porters, and cleaners:		
Maintenance mechanics (machinery).....	1,300	14.30	Truckdrivers, light truck.....	88	10.15	Manufacturing.....	1,663	9.86
Manufacturing.....	1,191	14.19	Truckdrivers, tractor-trailer.....	3,329	13.22	Nonmanufacturing:		
Motor vehicle mechanics.....	867	14.71	Manufacturing.....	1,085	13.15	Transportation and utilities.....	248	11.69
Manufacturing.....	189	14.23	Nonmanufacturing.....	2,264	13.25	Material movement and custodial occupations - women		
Nonmanufacturing.....	698	14.83	Receivers.....	617	9.60	Warehousemen.....	499	11.25
Transportation and utilities.....	458	15.14	Warehousemen.....	2,805	8.90	Guards:		
Maintenance workers (general).....	422	10.17	Manufacturing.....	437	11.02	Manufacturing.....	218	11.56
Maintenance trades helpers.....	312	8.89	Nonmanufacturing.....	2,388	8.50	Janitors, porters, and cleaners:		
Manufacturing.....	230	8.29	Transportation and utilities.....	360	13.16	Manufacturing.....	414	8.72
			Material handling laborers.....	958	10.87			

See footnotes at end of tables.

Footnotes

Some of these standard footnotes may not apply to this bulletin.

* Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

* Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Cost-of-living allowances and incentive payments, however, are included.

* The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—one-half of the workers receive the same

as or more and one-half receive the same as or less than the rate shown. The middle range is defined by two rates of pay; one-fourth of the workers earn the same as or less than the lower of these rates and one-fourth earn the same as or more than the higher rate.

* Earnings data relate only to workers whose sex identification was provided by the establishment.

* Estimates for periods ending prior to 1978 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

* Data do not meet publication criteria or data not available.

Appendix A. Scope and Method of Survey

In each of the 70 areas¹ currently surveyed, the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Small establishments—generally those with fewer than 50 employees—are excluded because they have few incumbents in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

Bureau field representatives obtain data by personal visits at 3-year intervals. In each of the two intervening years, only information on employment and occupational earnings is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

A sample of the establishments in the scope of the survey is selected for study prior to each personal visit survey. This sample, minus establishments which go out of business or are no longer within the industrial scope of the survey, is retained for the following two annual surveys. In most cases, establishments new to the area are not considered in the scope of the survey until the selection of a sample for a personal visit survey.

The sampling procedures involve detailed stratification of all establishments within the scope of an individual area survey by industry and number of employees. From this stratified universe a probability sample is selected, with each establishment having a predetermined chance of selection. To obtain optimum accuracy at minimum cost, a greater proportion of large than small establishments is selected. When data are combined, each establishment is weighted according to its probability of selection so that unbiased estimates are generated. For example, if one out of four establishments is selected, it is given a weight of 4 to represent itself plus three others. An alternate of the same original probability is chosen in the same industry-size classification if data are not available from the original sample member. If no suitable substitute is available, additional weight is assigned to a sample member that is similar to the missing unit.

Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material

movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B, along with corresponding occupational codes and titles from the 1980 edition of the *Standard Occupational Classification Manual*.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) data were insufficient to provide meaningful statistical results, or (2) there is possibility of disclosure of individual establishment data. Separate men's and women's earnings data are not presented when the number of workers not identified by sex is 20 percent or more of the men or women identified in an occupation. Earnings data not shown separately for industry divisions are included in data for all industries combined. Likewise, for occupations with more than one level, data are included in the overall classification when a subclassification is not shown or information to subclassify is not available.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases - but not bonuses - under cost-of-living allowance clauses, and incentive payments, however, are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Most A-series tables provide distributions of workers by earnings; changes in the size of earnings intervals are indicated by heavy vertical lines.

These surveys measure the level of occupational earnings in an area at a particular time. Changes in an occupational average over time reflect, in addition to earnings changes, factors such as changes in proportions of workers employed by high- or low-wage firms, or high-wage workers advancing to better jobs and being replaced by new workers at lower rates. Such shifts in employment could decrease an occupational

average even though most establishments in an area increase wages during the year. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

Wage trends for selected occupational groups

Indexes in table A-7 measure wages at a given time, expressed as a percent of wages during the base period. Subtracting 100 from the index yields the percent change in wages from the base period to the date of the index. The percent increases in table A-7 relate to wage changes between the indicated dates. Annual rates of increase, where shown, reflect the amount of increase for 12 months when the time span between surveys was other than 12 months. These computations are based on the assumption that wages increased at a constant rate between surveys.

The indexes and percent increases are based on changes in average hourly earnings of men and women in establishments reporting the trend jobs in both the current and previous year (matched establishments). The data are adjusted to remove the effect on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers I and II
Typists I and II
File clerks I, II, and III
Messengers

Switchboard operators
Order clerks I and II
Accounting clerks I, II, III, and IV
Payroll clerks
Key entry operators I and II

Electronic data processing

Computer systems analysts I, II, and III

Computer programmers I, II, and III
Computer operators I, II, and III

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters
Electricians
Painters
Machinists

Mechanics (machinery)
Pipefitters
Motor vehicle mechanics
Tool and die makers

Unskilled plant

Janitors, porters, and cleaners

Material handling laborers

Percent changes for individual areas in the program are computed as follows:

1. Average earnings are computed for each occupation for the 2 years being compared. The averages are derived from earnings in those establishments which are in the survey both years; it is assumed that employment remains unchanged.
2. Each occupation is assigned a weight based on its proportionate employment in the occupational group.
3. These weights are used to compute group averages. Each occupation's average earnings (computed in step 1) are multiplied by its weight. The products are totaled to obtain a group average.
4. The ratio of group averages for 2 consecutive years is computed by dividing the average for the current year by the average for the earlier year. The result—expressed as a percent—less 100 is the percent change.

The index is computed by adding 100 to the most recent percent increase, multiplying the total by the previous year's index number, and dividing the product by 100 to obtain the current index value.

Pay relationships in establishments

Tables A-8 through A-11 compare average pay of occupations in individual establishments. These comparisons, expressed as pay relatives (pay for one of the occupations equals 100), yield different results than comparisons of overall survey averages, such as those shown in tables A-1 through A-6. The latter reflect differences in contributions to the survey averages by establishments with disparate pay levels; the pay relative comparisons are not affected by such differences. The following procedures are used to compute relatives in tables A-8 through A-11:

1. Establishments employing workers in both of the paired occupations were identified.
2. Pay levels (averages) for the two occupations were weighted by the combined employment of both jobs to reflect each establishment's contribution to the totals used in this comparison.
3. The weighted pay levels of the two jobs were summed separately; each total was divided by the other and the quotients multiplied by 100 to produce the two pay relatives shown for each job pairing.

Establishment practices and employee benefits

Tabulations on selected establishment practices and employee benefits (B-series tables) are not presented in this bulletin. Information for these tabulations is collected at

3-year intervals. These tabulations on minimum entrance salaries for inexperienced office workers; shift differentials; scheduled weekly hours and days; paid holidays; paid vacations; health, insurance, and retirement plans; and other selected benefits are presented (in the B-series tables) in the previous bulletin for this area.

¹ The Bureau also conducts more limited area studies in approximately 96 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

Appendix table 1. Establishments and workers within scope of survey and number studied in Los Angeles-Long Beach, CA,¹ October 1985

Industry division ²	Minimum employment in establishments in scope of survey	Number of establishments		Workers in establishments		
		Within scope of survey ³	Studied	Within scope of survey ⁴		Studied
				Number	Percent	
All establishments						
All divisions	-	4,255	241	1,418,011	100	433,447
Manufacturing	100	1,348	85	513,242	36	305,886
Nonmanufacturing	-	3,009	178	904,769	64	227,561
Transportation, communication, and other public utilities	100	173	31	126,511	9	88,808
Wholesale trade ⁵	50	770	29	95,441	7	10,049
Retail trade ⁵	100	479	34	281,750	18	85,344
Finance, insurance, and real estate ⁵	50	502	30	150,050	11	48,088
Services ⁵	50	1,085	82	273,047	19	29,570
Large establishments						
All divisions	-	455	57	820,712	100	405,942
Manufacturing	500	159	30	310,851	38	188,785
Nonmanufacturing	-	296	57	510,061	62	207,157
Transportation, communication, and other public utilities ⁵	500	21	15	94,800	12	82,545
Wholesale trade ⁵	500	8	3	14,913	2	6,848
Retail trade ⁵	500	99	13	179,839	22	52,718
Finance, insurance, and real estate ⁵	500	51	10	86,589	11	43,578
Services ⁵	500	117	18	134,320	16	21,570

¹ The Los Angeles-Long Beach, CA Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Los Angeles County. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

² The 1972 edition of the *Standard Industrial Classification Manual* was used to classify establishments by industry division. All government operations are excluded from the scope of the survey.

³ Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of nonmanufacturing companies are considered as one establishment when located within the same industry division.

⁴ Includes all workers in all establishments with total employment (within the area) at or above the minimum limitation.

⁵ Abbreviated to "transportation and utilities" in the A-series tables. Taxis and services incidental to water transportation are excluded. Electric utilities and most of the local transit for the city of Los Angeles are municipally operated and are excluded by definition from the scope of the survey.

⁶ Separate data for this division are not presented in the A-series tables, but the division is represented in the "all industries" and "nonmanufacturing" estimates.

⁷ Hotels and motels; laundries and other personal services; business services; automobile repair, rental, and parking; motion pictures; nonprofit membership organizations (excluding religious and charitable organizations); and engineering and architectural services.

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping of occupational wage rates representing comparable job content. Because of this emphasis on comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job description, are excluded.

The titles and 2, 3, or 4-digit codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual (SOC)*, issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the Bureau of Labor Statistics' occupational descriptions are much more specific than those found in the SOC manual. The BLS occupation, "Registered Industrial Nurse," for example, is limited to workers providing medical assistance and other related services (e.g., health education) to persons who are ill or become ill or suffer an injury in a factory or other establishment. The SOC occupation (code 29) includes a variety of registered nurses (e.g., school nurse, head nurse, general duty nurse, private duty nurse) that are excluded from the BLS description.

Thus, in comparing the results of this survey with other sources, factors such as differences in occupational definitions and survey scope should be taken into consideration.

Office

SECRETARY

(4622: Secretary)

Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works

fairly independently, receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office.

Exclusions. Not all positions that are titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

- a. Clerks or secretaries working under the direction of secretaries or administrative assistants as described in c;
- b. Stenographers not fully performing secretarial duties;
- c. Stenographers or secretaries assigned to two or more professional, technical, or managerial persons of equivalent rank;
- d. Assistants or secretaries performing any kind of technical work, e.g., personnel, accounting, or legal work;
- e. Administrative assistants or supervisors performing duties which are more difficult or more responsible than the secretarial work described in LR-1 through LR-4;
- f. Secretaries receiving additional pay primarily for maintaining confidentiality of payroll records or other sensitive information;
- g. Secretaries performing routine receptionist, typing, and filing duties following detailed instructions and guidelines; these duties are less responsible than those described in LR-1 below;
- h. Trainees.

Classification by level. Secretary jobs which meet the required characteristics are matched at one of five levels according to two factors: (a) Level of the secretary's supervisor within the overall organizational structure, and (b) level of the secretary's responsibility. The table following the explanations of these factors indicates the level of the secretary for each combination of factors.

Level of Secretary's Supervisor (LS)

Secretaries should be matched at one of the three LS levels below best describing the organization of the secretary's supervisor.

LS-1

Organizational structure is not complex and internal procedures and administrative controls are simple and informal: supervisor directs staff through face-to-face meetings.

LS-2

Organizational structure is complex and is divided into subordinate groups that usually differ from each other as to subject matter, function, etc.; supervisor usually directs staff through intermediate supervisors; internal procedures and administrative controls are formal. An entire organization (e.g., division, subsidiary, or parent organization) may contain a variety of subordinate groups which meet the LS-2 definition. Therefore, it is not unusual for one LS-2 supervisor to report to another LS-2 supervisor.

The presence of subordinate supervisors does not by itself mean LS-2 applies, e.g., a clerical processing organization divided into several units, each performing very similar work, is placed in LS-1.

In smaller organizations or industries such as retail trades, with relatively few organizational levels, the supervisor may have an impact on the policies and major programs of the entire organization, and may deal with important outside contacts, as described in LS-3.

LS-3

Organizational structure is divided into two or more subordinate supervisory levels (of which at least one is a managerial level) with several subdivisions at each level. Executive's program(s) are usually interlocked on a direct and continuing basis with other major organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls. Executive typically has: Financial decisionmaking authority for assigned program(s); considerable impact on the entire organization's financial position or image; and responsibility for, or has staff specialists in, such areas as personnel and administration for assigned organization. Executive plays an important role in determining the policies and major programs of the entire organization, and spends considerable time dealing with outside parties actively interested in assigned program(s) and current or controversial issues.

Level of Secretary's Responsibility (LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor or staff, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at the level best describing

their level of responsibility. When a position's duties span more than one LR level, the introductory paragraph at the beginning of each LR level should be used to determine which of the levels best matches the position. (Typically, secretaries performing at the higher levels of responsibility also perform duties described at the lower levels.)

LR-1

Carries out recurring office procedures independently. Selects the guideline or reference which fits the specific case. Supervisor provides specific instructions on new assignments and checks completed work for accuracy. Performs varied duties including or comparable to the following:

- a. Responds to routine telephone requests which have standard answers; refers calls and visitors to appropriate staff. Controls mail and assures timely staff response; may send form letters;
- b. As instructed, maintains supervisor's calendar, makes appointments, and arranges for meeting rooms;
- c. Reviews materials prepared for supervisor's approval for typographical accuracy and proper format;
- d. Maintains recurring internal reports, such as: time and leave records, office equipment listings, correspondence controls, training plans, etc.;
- e. Requisitions supplies, printing, maintenance, or other services. Types, takes and transcribes dictation, and establishes and maintains office files.

LR-2

Handles differing situations, problems, and deviations in the work of the office according to the supervisor's general instructions, priorities, duties, policies, and program goals. Supervisor may assist secretary with special assignments. Duties include or are comparable to the following:

- a. Screens telephone calls, visitors, and incoming correspondence; personally responds to requests for information concerning office procedures; determines which requests should be handled by the supervisor, appropriate staff member, or other offices. May prepare and sign routine, nontechnical correspondence in own or supervisor's name;
- b. Schedules tentative appointments without prior clearance. Makes arrangements for conferences and meetings and assembles established background materials, as directed. May attend meetings and record and report on the proceedings;
- c. Reviews outgoing materials and correspondence for internal consistency and conformance with supervisor's procedures; assures that proper clearances have been obtained, when needed;
- d. Collects information from the files or staff for routine inquiries on office program(s) or periodic reports. Refers nonroutine requests to supervisor or staff;
- e. Explains to subordinate staff supervisor's requirements concerning office procedures. Coordinates personnel and administrative forms for the office and forwards for processing.

LR-3

Uses greater judgment and initiative to determine the approach or action to take in nonroutine situations. Interprets and adapts guidelines, including unwritten policies, precedents, and practices, which are not always completely applicable to changing situations. Duties include or are comparable to the following:

- a. Based on a knowledge of the supervisor's views, composes correspondence on own initiative about administrative matters and general office policies for supervisor's approval;
- b. Anticipates and prepares materials needed by the supervisor for conferences, correspondence, appointments, meetings, telephone calls, etc., and informs supervisor on matters to be considered;
- c. Reads publications, regulations, and directives and takes action or refers those that are important to the supervisor and staff;
- d. Prepares special or one-time reports, summaries, or replies to inquiries, selecting relevant information from a variety of sources such as reports, documents, correspondence, other offices, etc., under general direction;
- e. Advises secretaries in subordinate offices on new procedures; requests information needed from the subordinate office(s) for periodic or special conferences, reports, inquiries, etc. Shifts clerical staff to accommodate workload needs.

LR-4

Handles a wide variety of situations and conflicts involving the clerical or administrative functions of the office which often cannot be brought to the attention of the executive. The executive sets the overall objectives of the work. Secretary may participate in developing the work deadlines. Duties include or are comparable to the following:

- a. Composes correspondence requiring some understanding of technical matters; may sign for executive when technical or policy content has been authorized;
- b. Notes commitments made by executive during meetings and arranges for staff implementation. On own initiative, arranges for staff member to represent organization at conferences and meetings, establishes appointment priorities, or reschedules or refuses appointments or invitations;
- c. Reads outgoing correspondence for executive's approval and alerts writers to any conflict with the file or departure from policies or executive's viewpoints; gives advice to resolve the problems;
- d. Summarizes the content of incoming materials, specially gathered information, or meetings to assist executive; coordinates the new information with background office sources; draws attention to important parts or conflicts;
- e. In the executive's absence, ensures that requests for action or information are relayed to the appropriate staff member; as needed, interprets request and helps implement action; makes sure that information is furnished in timely manner; decides whether executive should be notified of important or emergency matters.

Exclude secretaries performing any of the following duties:

Acts as office manager for the executive's organization, e.g., determines when new procedures are needed for changing situations and devises and implements alternatives; revises or clarifies procedures to eliminate conflict or duplication; identifies and resolves various problems that affect the orderly flow of work in transactions with parties outside the organization.

Prepares agenda for conferences; explains discussion topics to participants; drafts introductions and develops background information and prepares outlines for executive or staff member(s) to use in writing speeches.

Advises individuals outside the organization on the executive's views on major policies or current issues facing the organization; contacts or responds to contacts from high-ranking outside officials (e.g., city or State officials, members of Congress, presidents of national unions or large national or international firms, etc.) in unique situations. These officials may be relatively inaccessible, and each contact typically must be handled differently, using judgment and discretion.

Criteria For Matching Secretaries By Level

Level of Secretary's Supervisor	Level of Secretary's Responsibility			
	LR-1	LR-2	LR-3	LR-4
LS-1	I	II	III	IV
LS-2	I	III	IV	V
LS-3	I	IV	V	V

STENOGRAPHER

(4623: Stenographer)

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings.

Excluded from this definition are:

- a. Trainee positions not requiring a fully qualified stenographer;
- b. Secretaries providing the principal secretarial support in an office and performing more responsible and discretionary tasks, as described in LR-1 through LR-4 in the secretary definition above;
- c. Stenographers who take dictation involving the frequent use of a wide variety of technical or specialized vocabulary. Typically this kind of vocabulary cannot be learned in a relatively short period of time, e.g., a month or two;
- d. Stenographers, such as shorthand reporters, who record material verbatim at hearings, conferences, or similar proceedings.

Stenographer I

Takes and transcribes dictation, receiving specific assignments along with detailed instructions on such requirements as form and presentation. The transcribed material is typically reviewed in rough draft, and the final transcription is reviewed for conformance with the rough draft. May maintain files, keep simple records, or perform other relatively routine clerical tasks.

Stenographer II

Takes and transcribes dictation determining the most appropriate format. Performs stenographic duties requiring significantly greater independence and responsibility than Stenographer I. Supervisor typically provides general instructions. Work requires a thorough working knowledge of general business and office procedures and of the specific business operations, organizations, policies, procedures, files, workflow, etc.

Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; answering routine questions, etc.

TYPIST

(4624: Typist)

Uses a manual, electric, or automatic typewriter to type various materials. Included are automatic typewriters that are used only to record text and update and reproduce previously typed items from magnetic cards or tape. May include typing of stencils, mats, or similar materials for use in duplicating processes. May do clerical work involving little special training, such as keeping simple records, filing records and reports, or sorting and distributing incoming mail.

Excluded from this definition is work that involves:

- a. Typing directly from spoken material that has been recorded on disks, cylinders, belts, tapes, or other similar media;
- b. The use of varitype machines, composing equipment, or automatic equipment in preparing material for printing; and
- c. Familiarity with specialized terminology in various keyboard commands to manipulate or edit the recorded text to accomplish revisions, or to perform tasks such as extracting and listing items from the text, or transmitting text to other terminals, or using "sort" commands to have the machine reorder material. Typically requires the use of automatic equipment which may be either computer linked or have a programmable memory so that material can be organized in regularly used formats or preformed paragraphs which can then be coded and stored for future use in letters or documents.

Typist I

Performs *one or more of the following*: Copy typing from rough or clear drafts; or routine typing of forms, insurance policies, etc.; or setting up simple standard tabulations; or copying more complex tables already set up and spaced properly.

Typist II

Performs *one or more of the following*: Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

WORD PROCESSOR

(4624: Typist)

Primary duty is to operate word-processing equipment to enter, store, retrieve, change, and present text or tabulations. Produces a variety of printed copy such as letters, documents, or reports. May enter regularly used formats or stored paragraphs that are organized and coded for future use. Recorded texts can be changed by rearranging paragraphs, replacing words, shifting lines, etc.

(Word-processing equipment typically has a full- or partial-page video-display screen (CRT) and a separate printer. The equipment may be integrated with a digital computer, have telecommunications capabilities, and also have capabilities for adding to or upgrading features. Automatic or electronic typewriters with limited text-editing capabilities, and often with single-line electronic display "windows," are not considered word-processing equipment.)

Excluded from this definition are:

- a. Workers whose primary function is to enter a data base for purposes other than composition (see key entry operator);
- b. Workers who use equipment and data base for purposes such as accounting, inventory control, sales, or original writing and editing;
- c. Workers responsible for preparation of published reports, including page layout or selection of different type sizes.

Positions are classified into levels on the basis of the following definitions:

Word Processor I

Performs tasks requiring a knowledge of the word-processing equipment and familiarity with the formats and forms used in the establishment. Proficiency in grammar, spelling, and punctuation is also required to produce printed materials accurately. May refer problems to supervisor or higher level processor, or refer to operating manual.

Word Processor II

Work at this level requires considerable classroom or on-the-job training and may involve working directly with task originator rather than through supervisor. In addition to work assignments described for level I, duties include *one or more of the following*:

- a. Uses the more sophisticated features of the equipment to carry out complex assignments, such as sorting, merging, and organizing text, or maintaining files;
- b. Applies knowledge of specialized terminology or foreign language;
- c. Tests new applications and procedures; or
- d. Trains lower level processors.

FILE CLERK

(4696: File clerk)

Files, classifies, and retrieves material in an established filing system. May perform clerical and manual tasks required to maintain files. Positions are classified into levels on the basis of the following definitions:

File Clerk I

Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards material; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

File Clerk II

Sorts, codes, and files unclassified material by simple (subject matter) headings or partly classified material by finer subheadings. Prepares simple related index and cross-reference aids. As requested, locates clearly identified material in files and forwards material. May perform related clerical tasks required to maintain and service files.

File Clerk III

Classifies and indexes file material such as correspondence, reports, technical documents, etc., in an established filing system containing a number of varied subject matter files. May also file this material. May keep records of various types in conjunction with the files. May lead a small group of lower level file clerks.

MESSENGER

(4745: Messenger)

Performs various routine duties such as running errands, operating minor office machines such as sealers or mailers, opening mail, distributing mail on a regularly scheduled route or in a familiar area, and other minor clerical work. May deliver mail that requires some special handling, e.g., mail that is insured, registered, or marked for special delivery.

Excluded are positions which include any of the following as significant duties:

- a. Operating motor vehicles;
- b. Delivering valuables or security-classified mail when the work requires a continuing knowledge of special procedures for handling such items;
- c. Weighing mail, determining postage, or recording and controlling registered, insured, and certified mail in the mail room;
- d. Making deliveries to unfamiliar or widely separated buildings or points which are not part of an established route; or
- e. Directing other workers.

RECEPTIONIST

(4645: Receptionist)

Greets visitors, determines nature of visits, and directs visitors to appropriate persons. Receptionist duties may also include providing information, making appointments, answering a telephone (other than switchboard or console), keeping a log of visitors, and issuing visitor passes. May also perform typing or other routine clerical duties which may occupy a major portion of time, and are usually performed at the reception desk.

This classification excludes workers operating a telephone switchboard or console, performing guard duties, or performing more difficult clerical duties.

SWITCHBOARD OPERATOR

(4732: Telephone operator)

Operates a telephone switchboard or console used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls. May provide information to callers, record and transmit messages, keep record of calls placed and toll charges. Besides operating a telephone switchboard or console, may also type or perform routine clerical work (typing or routine clerical work may occupy the major portion of the worker's time, and is usually performed while at the switchboard or

console). Chief or lead operators in establishments employing more than one operator are excluded. For an operator who also acts as a receptionist, see Switchboard operator-receptionist.

SWITCHBOARD OPERATOR-RECEPTIONIST

(4645: Receptionist)

At a single-position telephone switchboard or console, acts both as an operator—see Switchboard operator—and as a receptionist. Receptionist's work involves such duties as greeting visitors; determining nature of visitor's business and providing appropriate information; referring visitor to appropriate person in the organization or contacting that person by telephone and arranging an appointment; keeping a log of visitors.

ORDER CLERK

(4664: Order clerk)

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgment of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order. *Exclude workers paid on a commission basis or whose duties include any of the following:* Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

Order Clerk I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

Order Clerk II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

ACCOUNTING CLERK

(4712: Bookkeeper and accounting and auditing clerk)

Performs one or more accounting tasks such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc.; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV require a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

Accounting Clerk I

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

Accounting Clerk II

Performs one or more routine accounting clerical operations, such as: Examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts and items to be posted; and coding documents in accordance with a chart (listing) of accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

Accounting Clerk III

Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

Accounting Clerk IV

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: Reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves

problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

NOTE: Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

PAYROLL CLERK

(4713: Payroll and timekeeping clerk)

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves *most of the following*: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a nonautomated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

KEY ENTRY OPERATOR

(4793: Data entry keyer)

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disk encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

NOTE: Excluded are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

Professional and Technical

COMPUTER SYSTEMS ANALYST, BUSINESS

(1712: Computer systems analyst)

Analyzes business problems to formulate procedures for solving them by use of electronic data processing equipment. Develops a complete description of all specifica-

tions needed to enable programmers to prepare required digital computer programs. Work involves *most of the following*: Analyzes subject-matter operations to be automated and identifies conditions and criteria required to achieve satisfactory results; specifies number and types of records, files, and documents to be used; outlines actions to be performed by personnel and computers in sufficient detail for presentation to management and for programming (typically this involves preparation of work and data flow charts); coordinates the development of test problems and participates in trial runs of new and revised systems; and recommends equipment changes to obtain more effective overall operations. (NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or systems analysts primarily concerned with scientific or engineering problems.

For wage study purposes, systems analysts are classified as follows:

Computer Systems Analyst I

Works under immediate supervision, carrying out analyses as assigned, usually of a single activity. Assignments are designed to develop and expand practical experience in the application of procedures and skills required for systems analysis work. For example, may assist a higher level systems analyst by preparing the detailed specifications required by programmers from information developed by the higher level analyst.

Computer Systems Analyst II

Works independently or under only general direction on problems that are relatively uncomplicated to analyze, plan, program, and operate. Problems are of limited complexity because sources of input data are homogeneous and the output data are closely related. (For example, develops systems for maintaining depositor accounts in a bank, maintaining accounts receivable in a retail establishment, or maintaining inventory accounts in a manufacturing or wholesale establishment.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of the data processing systems to be applied. *OR*

Works on a segment of a complex data processing scheme or system, as described for level III. Works independently on routine assignments and receives instruction and guidance on complex assignments. Work is reviewed for accuracy of judgment, compliance with instructions, and to insure proper alignment with the overall system.

Computer Systems Analyst III

Works independently or under only general direction on complex problems involving all phases of systems analysis. Problems are complex because of diverse sources of input data and multiple-use requirements of output data. (For example, develops an integrated production scheduling, inventory control, cost analysis, and sales analysis record in which every item of each type is automatically processed through the full system of records and appropriate follow-up actions are initiated by the computer.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of new or revised systems of data processing operations. Makes recommendations, if needed, for approval of major systems installations or changes and for obtaining equipment.

May provide functional direction to lower level systems analysts who are assigned to assist.

COMPUTER PROGRAMMER, BUSINESS

(3971: Programmer, business)

Converts statements of business problems, typically prepared by a systems analyst, into a sequence of detailed instructions which are required to solve the problems by automatic data processing equipment. Working from charts or diagrams, the programmer develops the precise instructions which, when entered into the computer system in coded language, cause the manipulation of data to achieve desired results. Work involves *most of the following*: Applies knowledge of computer capabilities, mathematics, logic employed by computers, and particular subject matter involved to analyze charts and diagrams of the problem to be programmed; develops sequence of program steps; writes detailed flow charts to show order in which data will be processed; converts these charts to coded instructions for machine to follow; tests and corrects programs; prepares instructions for operating personnel during production run; analyzes, reviews, and alters programs to increase operating efficiency or adapt to new requirements; maintains records of program development and revisions. (NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or programmers primarily concerned with scientific and/or engineering problems.

For wage study purposes, programmers are classified as follows:

Computer Programmer I

Makes practical applications of programming practices and concepts usually learned in formal training courses. Assignments are designed to develop competence in the application of standard procedures to routine problems. Receives close supervision on new aspects of assignments; and work is reviewed to verify its accuracy and conformance with required procedures.

Computer Programmer II

Works independently or under only general direction on relatively simple programs, or on simple segments of complex programs. Programs (or segments) usually process information to produce data in two or three varied sequences or formats. Reports and listings are produced by refining, adapting, arraying, or making minor additions to or deletions from input data which are readily available. While numerous records may be processed, the data have been refined in prior actions so that the accuracy and sequencing of data can be tested by using a few routine checks. Typically, the program deals with routine recordkeeping operations. *OR*

Works on complex programs (as described for level III) under close direction of a higher level programmer or supervisor. May assist higher level programmer by independently performing less difficult tasks assigned, and performing more difficult tasks under fairly close direction. May guide or instruct lower level programmers.

Computer Programmer III

Works independently or under only general direction on complex problems which require competence in all phases of programming concepts and practices. Working from diagrams and charts which identify the nature of desired results, major processing steps to be accomplished, and the relationships between various steps of the problem solving routine; plans the full range of programming actions needed to efficiently utilize the computer system in achieving desired end products.

At this level, programming is difficult because computer equipment must be organized to produce several interrelated but diverse products from numerous and diverse data elements. A wide variety and extensive number of internal processing actions must occur. This requires such actions as development of common operations which can be reused, establishment of linkage points between operations, adjustments to data when program requirements exceed computer storage capacity, and substantial manipulation and resequencing of data elements to form a highly integrated program.

May provide functional direction to lower level programmers who are assigned to assist.

COMPUTER OPERATOR

(4612: Computer operator)

In accordance with operating instructions, monitors and operates the control console of a digital computer to process data. Executes runs by either serial processing (processes one program at a time) or multiprocessing (processes two or more programs simultaneously). The following duties characterize the work of a computer operator:

- a. Studies operating instructions to determine equipment setup needed;
- b. Loads equipment with required items (tapes, cards, disks, paper, etc.);
- c. Switches necessary auxiliary equipment into system;
- d. Starts and operates computer;
- e. Responds to operating and computer output instructions;
- f. Reviews error messages and makes corrections during operation or refers problems;
- g. Maintains operating record.

May test-run new or modified programs. May assist in modifying systems or programs. The scope of this definition includes trainees working to become fully qualified computer operators, fully qualified computer operator, and lead operators providing technical assistance to lower level operators. It excludes workers who monitor and operate remote terminals.

For wage study purposes, computer operators are classified as follows:

Computer Operator I

Work assignments are limited to established production runs (i.e., programs which present few operating problems). Assignments may consist primarily of on-the-job training (sometimes augmented by classroom instruction). When learning to run programs, the supervisor or a higher level operator provides detailed written or oral guidance to the operator before and during the run. After the operator has gained experience with a program, however, the operator works fairly independently in applying standard operating or corrective procedures in responding to computer output instructions or error conditions, but refers problems to a higher level operator or the supervisor when standard procedures fail.

Computer Operator II

In addition to established production runs, work assignments include runs involving new programs, applications, and procedures (i.e., situations which require the operator to adapt to a variety of problems). At this level, the operator has the training and experience to work fairly independently in carrying out most assignments. Assignments may require the operator to select from a variety of standard setup and operating procedures. In responding to computer output instructions or error conditions, applies standard operating or corrective procedures, but may deviate from standard procedures when standard procedures fail if deviation does not materially alter the computer unit's production plans. Refers the problem or aborts the program when procedures applied do not provide a solution. May guide lower level operators.

Computer Operator III

In addition to work assignments described for Computer operator II (see above) the work of Computer operator III involves at least one of the following:

- a. Deviates from standard procedures to avoid the loss of information or to conserve computer time even though the procedures applied materially alter the computer unit's production plans;
- b. Tests new programs, applications, and procedures;
- c. Advises programmers and subject-matter experts on setup techniques;
- d. Assists in (1) maintaining, modifying, and developing operating systems or programs; (2) developing operating instructions and techniques to cover problem situations; and/or (3) switching to emergency backup procedures (such assistance requires a working knowledge of program language, computer features, and software systems).

An operator at this level typically guides lower level operators.

PERIPHERAL EQUIPMENT OPERATOR

(4613: Peripheral equipment operator)

Operates peripheral equipment which directly supports digital computer operations. Such equipment is uniquely and specifically designed for computer applications, but need not be physically or electronically connected to a computer. Printers, plotters, card read/punches, tape readers, tape units or drives, disk units or drives, and data display units are examples of such equipment.

The following duties characterize the work of a peripheral equipment operator:

- a. Loading printers and plotters with correct paper; adjusting controls for forms, thickness, tension, printing density, and location; and unloading hard copy;
- b. Labeling tape reels, disks, or card decks;
- c. Checking labels and mounting and dismounting designated tape reels or disks on specified units or drives;
- d. Setting controls which regulate operation of the equipment;
- e. Observing panel lights for warnings and error indications and taking appropriate action;

- f. Examining tapes, cards, or other material for creases, tears, or other defects which could cause processing problems.

This classification excludes workers (1) who monitor and operate a control console (see Computer operator) or a remote terminal, or (2) whose duties are limited to operating decollaters, bursters, separators, or similar equipment.

COMPUTER DATA LIBRARIAN

(4696: File clerk)

(4734: Stock and inventory clerk)

Maintains library of media (tapes, disks, cards, cassettes) used for automatic data processing applications. The following or similar duties characterize the work of a computer data librarian: Classifying, cataloging, and storing media in accordance with a standardized system; upon proper requests, releasing media for processing; maintaining records of releases and returns; inspecting returned media for damage or excessive wear to determine whether or not they need replacing. May perform minor repairs to damaged tapes.

DRAFTER

(372: Drafting occupation)

Performs drafting work requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, mechanical and electrical equipment, piping and duct systems and other similar equipment, systems, and assemblies. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings. Drawings are used to communicate engineering ideas, designs, and information in support of engineering functions.

The following are excluded when they constitute the primary purpose of the job:

- a. Design work requiring the technical knowledge, skill, and ability to conceive or originate designs;
- b. Illustrating work requiring artistic ability;
- c. Work involving the preparation of charts, diagrams, room arrangements, floor plans, etc.;
- d. Cartographic work involving the preparation of maps or plats and related materials, and drawings of geological structures; and
- e. Supervisory work involving the management of a drafting program or the supervision of drafters.

Positions are classified into levels on the basis of the following definitions.

Drafter I

Working under close supervision, traces or copies finished drawings, making clearly indicated revisions. Uses appropriate templates to draw curved lines. Assignments are designed to develop increasing skill in various drafting techniques. Work is spot-checked during progress and reviewed upon completion.

NOTE: Exclude drafters performing elementary tasks while receiving training in the most basic drafting methods.

Drafter II

Prepares drawings of simple, easily visualized parts of equipment from sketches or marked-up prints. Selects appropriate templates and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy.

Drafter III

Prepares various drawings of parts and assemblies, including sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the industry. Familiar or recurring work is assigned in general terms; unfamiliar assignments include information on methods, procedures, sources of information, and precedents to be followed. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results; more complex revisions are produced from sketches which clearly depict the desired product.

Drafter IV

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or designer may suggest methods of approach or provide advice on unusually difficult problems.

NOTE: Exclude drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

Drafter V

Works closely with design originators, preparing drawings of unusual, complex or original designs which require a high degree of precision. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally perform engineering design work in interpreting general designs prepared by others or in completing missing design details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

ELECTRONICS TECHNICIAN

(3711: Electrical and electronic engineering technologist and technician)

(615: Electrical and electronic equipment repairer)

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling,

troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) Electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

Positions are classified into levels on the basis of the following definitions:

Electronics Technician I

Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot-checked, but is given detailed review when new or advanced assignments are involved.

Electronics Technician II

Applies comprehensive technical knowledge to solve complex problems (i.e., those that typically *can* be solved solely by properly interpreting manufacturers' manuals or similar documents) in working on electronic equipment. Work involves: A familiarity with the interrelationships of circuits; and judgment in determining work sequence and in selecting tools and testing instruments, usually less complex than those used by the level III technician.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for specific compliance with accepted practices and work assignments. May provide technical guidance to lower level technicians.

Electronics Technician III

Applies advanced technical knowledge to solve unusually complex problems (i.e., those that typically *cannot* be solved solely by reference to manufacturers' manuals or similar documents) in working on electronic equipment. Examples of such problems include location and density of circuitry, electromagnetic radiation, isolating malfunctions, and frequent engineering changes. Work involves: A detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, tracing relationships in signal flow; and regularly using complex test instruments (e.g., dual trace oscilloscopes, Q-meters, deviation meters, pulse generators).

Work may be reviewed by supervisor (frequently an engineer or designer) for general compliance with accepted practices. May provide technical guidance to lower level technicians.

REGISTERED INDUSTRIAL NURSE

(29: Registered nurse)

A registered nurse gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve *a combination of the following*: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

(6422: Carpenter)

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

(615: Electrical and electronic equipment repairer)

(6432: Electrician)

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy in an establishment. Work involves *most of the following*: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE PAINTER

(6442: Painter, construction and maintenance)

Paints and redecorates walls, woodwork, and fixtures of an establishment. Work involves *the following*: Knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead, and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MACHINIST

(613: Industrial machinery repairer)

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment operated in an establishment. Work involves *most of the following*: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

(613: Industrial machinery repairer)

Repairs machinery or mechanical equipment of an establishment. Work involves *most of the following*: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

MAINTENANCE PIPEFITTER

(645: Plumber, pipefitter, and steamfitter)

Installs or repairs water, steam, gas, or other types of pipe and pipefittings in an establishment. Work involves *most of the following*: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-

cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

MILLWRIGHT

(6178: Millwright)

Installs new machines or heavy equipment, and dismantles and installs machines or heavy equipment when changes in the plant layout are required. Work involves *most of the following*: Planning and laying out work; interpreting blueprints or other specifications; using a variety of handtools and rigging; making standard shop computations relating to stresses, strength of materials, and centers of gravity; aligning and balancing equipment; selecting standard tools, equipment, and parts to be used; and installing and maintaining in good order power transmission equipment such as drives and speed reducers. In general, the millwright's work normally requires a rounded training and experience in the trade acquired through a formal apprenticeship or equivalent training and experience.

MOTOR VEHICLE MECHANIC

(611: Vehicle and mobile equipment mechanic and repairer)

Repairs, rebuilds, or overhauls major assemblies of internal combustion automobiles, buses, trucks, or tractors of an establishment. Work involves *most of the following*: Diagnosing the source of trouble and determining the extent of repairs required; replacing worn or broken parts such as piston rings, bearings, or other engine parts; grinding and adjusting valves; rebuilding carburetors; overhauling transmissions; and repairing fuel injection, lighting, and ignition systems. In general, the work of the motor vehicle mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles or who only perform minor repair and tuneup of motor vehicles. It does, however, include fully qualified journeymen mechanics even though most of their time may be spent on minor repairs and tuneups.

GENERAL MAINTENANCE WORKER

(6179: Mechanic and repairer, not elsewhere classified)

Performs general maintenance and repair of building structures and their mechanical, electrical, or sanitary systems. May also perform general maintenance and repair of the establishment's machinery. Work requires a basic practical knowledge of several maintenance trades in order to perform *most of the following*: Keeping in good repair building woodwork; replacing electrical switches, fixtures, and motors; occasional painting or touching up of structure or equipment; repairing or replacing plumbing fixtures; and replacing broken window panes.

Excluded are positions requiring a formal apprenticeship or equivalent training in one or more crafts. Also excluded are workers participating in such a program.

MAINTENANCE TRADES HELPER

(863: Helper; mechanic and repairer)

(864: Helper; construction trades)

Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

MACHINE-TOOL OPERATOR (TOOLROOM)

(6813: Machinist)

(731-2: Metalworking and plasticworking machine setup operator)

Specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves:* Planning and performing difficult machining operations which require complicated setups or a high degree of accuracy; setting up machine tool or tools (e.g., install cutting tools and adjust guides, stops, working tables, and other controls to handle the size of stock to be machined; determine proper feeds, speeds, tooling, and operation sequence or select those prescribed in drawings, blueprints, or layouts); using a variety of precision measuring instruments; making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. May be required to select proper coolants and cutting and lubricating oils, to recognize when tools need dressing, and to dress tools. In general, the work of a machine-tool operator (toolroom) at the skill level called for in this classification requires extensive knowledge of machine-shop and toolroom practice usually acquired through considerable on-the-job training and experience.

For cross-industry wage study purposes, this classification does *not* include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER

(6811: Tool and die maker)

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves:* Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and

toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does *not* include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

STATIONARY ENGINEER

(6931: Stationary engineer)

Operates and maintains one or more systems which provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water, or electricity. Duties involve: Observing and interpreting readings on gauges, meters, and charts which register various aspects of the system's operation; adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery, and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

The classification excludes head or chief engineers in establishments employing more than one engineer; workers required to be skilled in the repair of electronic control equipment; workers in establishments producing electricity, steam, or heated or cooled air primarily for sale; and boiler tenders.

Material Movement and Custodial

TRUCKDRIVER

(821: Motor vehicle operator)

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Salesroute and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

Truckdriver, light truck

(straight truck, under 1 1/2 tons, usually 4 wheels)

Truckdriver, medium truck

(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)

Truckdriver, heavy truck

(straight truck, over 4 tons, usually 10 wheels)

Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

(4753: Traffic, shipping and receiving clerk)

Performs clerical and physical tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing

day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

Shippers typically are responsible for most of the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

Receivers typically are responsible for most of the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; preparing and keeping records of goods received.

For wage study purposes, workers are classified as follows:

Shipper

Receiver

Shipper and receiver

WAREHOUSEMAN

(4754: Stock and inventory clerk)

As directed, performs a variety of warehousing duties which require an understanding of the establishment's storage plan. Work involves most of the following: Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

Exclude workers whose primary duties involve shipping and receiving work (see Shipper and receiver and Shipping packer), order filling (see Order filler), or operating power trucks (see Power-truck operator).

ORDER FILLER

(4754: Stock and inventory clerk)

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

SHIPPING PACKER

(8761: Hand packer and packager)

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and may involve one or more of the following: Knowledge of various items of stock in order to verify content; selection

of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. Packers who also make wooden boxes or crates are excluded.

MATERIAL HANDLING LABORER

(8726: Freight, stock, and material mover, not elsewhere classified)

Performs physical tasks to transport or store materials or merchandise. Duties involve one or more of the following: Manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelving, or placing items in proper storage locations; or transporting goods by handtruck, cart, or wheelbarrow.

Excluded from this definition are workers whose primary function involves:

- a. Participating directly in the production of goods (e.g., moving items from one production station to another or placing them on or removing them from the production process);
- b. Stocking merchandise for sale;
- c. Counting or routing merchandise;
- d. Operating a crane or heavy-duty motorized vehicle such as forklift or truck;
- e. Loading and unloading ships (longshore workers); or
- f. Traveling on trucks beyond the establishment's physical location to load or unload merchandise.

POWER-TRUCK OPERATOR

(8318: Industrial truck and tractor equipment operator)

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by type of powertruck, as follows:

Forklift operator

Power-truck operator (other than forklift)

GUARD

(5144: Guard and police, except public service)

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motor vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions.

Guards employed by establishments which provide protective services on a contract basis are included in this occupation.

For wage study purposes, guards are classified as follows:

Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties require minimal training. Commonly, the guard is not

required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly, the guard is required to demonstrate continuing physical fitness and proficiency with

firearms or other special weapons.

JANITOR, PORTER, OR CLEANER

(5244: Janitor and cleaner)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve a combination of the following: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

Area Wage Survey Summaries

The following areas are surveyed periodically. Reports on the surveys are available at no cost from any of the Bureau's regional offices while supplies last.

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 Atlantic City, NJ
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 Bakersfield, CA
 Baton Rouge, LA
 Battle Creek, MI
 Beaumont-Port Arthur-Orange and Lake Charles, TX-LA
 Biloxi-Gulfport and Pascagoula-Moss Point, MS
 Binghamton, NY
 Birmingham, AL
 Bloomington-Vincennes, IN
 Bremerton-Shelton, WA
 Brunswick, GA
 Champaign-Urbana-Rantoul, IL
 Charleston-North Charleston-Walterboro, SC
 Charlotte-Gastonia, NC
 Cheyenne, WY
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 Colorado Springs, CO
 Columbia-Sumter, SC
 Columbus, GA-AL

Columbus, MS
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 Fort Smith, AR-OK
 Fort Wayne, IN
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 Guam, Territory of
 Harrisburg-Lebanon, PA
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 Laredo, TX
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 Lima, OH
 Little Rock-North Little Rock, AR
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 Macon, GA
 Madison, WI
 Maine (statewide)
 Mansfield, OH
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 Melbourne-Titusville-Cocoa, FL

Meridian, MS
 Middlesex, Monmouth, and Ocean Counties, NJ
 Mobile-Pensacola-Panama City, AL-FL
 Montana (statewide)
 Montgomery, AL
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 Southeastern Massachusetts

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 Stockton, CA
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 Tampa-St. Petersburg, FL
 Topeka, KS
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 Upper Peninsula, MI
 Vallejo-Fairfield-Napa, CA
 Vermont (statewide)
 Waco and Killeen-Temple, TX
 Waterloo-Cedar Falls, IA
 West Virginia (statewide)
 Western and Northern Massachusetts
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ALSO AVAILABLE—

An annual report on salaries for accountants, auditors, public accountants, chief accountants, attorneys, job analysts, directors of personnel, buyers, chemists, engineers, engineering technicians, drafters, computer operators, and clerical employees is available. Order as BLS Bulletin 2243, *National Survey of Professional, Administrative, Technical and Clerical Pay*, March 1985, from: Bureau of Labor Statistics, Publications Sales Center, P.O. Box 2145, Chicago, IL 60690, or Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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Employee Benefits in Medium and Large Firms, 1984

U.S. Department of Labor
Bureau of Labor Statistics
Bulletin 2237

The Bureau of Labor Statistics issues its 1984 bulletin on employee benefits in medium and large firms. This survey is the sixth in an annual series.

Data available

Incidence and detailed characteristics of 11 private sector employee benefits paid for at least in part by the employer: Lunch and rest periods, holidays, vacations, and personal and sick leave; sickness and accident, long-term disability, health, and life insurance; and private retirement pension plans.

- Incidence data on 18 other employee benefits, including stock, savings and thrift, and profit sharing plans; employee discounts; and educational assistance.
- Data presented separately for three occupational groups—professional-administrative, technical-clerical, and production workers.

Coverage

- Major benefits in medium and large firms, nationwide.
- Minimum employment in establishments covered is generally 100 or 250 employees, depending on the industry.

Source of data

- Sample of about 1,500 establishments in a cross-section of the Nation's private

industries: primarily by personal interview.

Uses

- Benefit administration in public and private employment.
- Union contract negotiations.
- Conciliation and arbitration in public and private sectors.
- Development of legislation affecting the welfare of workers.

Employee Benefits in Medium and Large Firms, 1984



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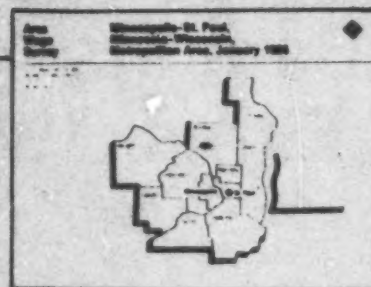
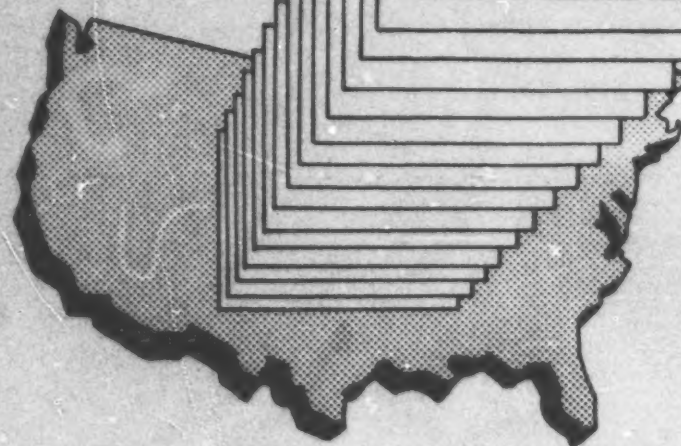
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